Safety Data Sheets

All

Fab Shop - GMI

01/11/2022

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Cold Fire is an environmentally friendly fire suppressing agent, specially designed to rapidly suppress and extinguish fires, cool down hot surfaces, prevent re-ignition and encapsulate hydrocarbons. Cold Fire is PFAS free, safe to store, handle and use, leaves virtually no residue and is non-toxic, non-corrosive and biodegradable.

Section 1: Identification

Manufacturer: Firefreeze Worldwide, Inc. Address: 272 Route 46 East, Rockaway, NJ 07866 Phone: 973-627-0722; Fax: 973-627-2982 Email: info@firefreeze.com

Product/Trade Name: Cold Fire

Chemical Identifier: CF-302

Product Usage: UL Listed Wetting Agent for Class A & B fires.

Can be used for Class D, K and C fires with appropriate extinguishing application & equipment.

*International Certifications: See regulatory information Section 15.

In emergency call 911.

For information about this SDS, contact phone#: 973-627-0722 or email info@firefreeze.com

Section 2: Hazard(s) Identification

Hazardous Materials Identification System:

Health: 0

Flammability: 0 Reactivity: 0

Personal Protection: 0

Product may be slippery in concentrate form.

No components are believed to be hazardous or listed in the NIOSH Recommendations for Occupational Safety and Health Standards, 1988, or are listed by SARA, CERCLA, or RCRA. No OSHA PEL's are established for any of the proprietary ingredients.

Section 3: Composition/ Information on Ingredients

Formulation is proprietary and components are classified trade secret. A proprietary environmentally friendly formulation consisting of water, biodegradable anionic and nonionic surfactants, organic compounds and minerals that have been tested PFAS (Perfluoroalkyl and packful and proprietary environmentally) from Cold Fire is clear in comparison and the provide and the provide

polyfluoroalkyl substances) free. Cold Fire is clear in composition and has a clean, fresh smell.

Section 4: First-Aid Measures

After skin contact: Rinse skin with water. After eye contact: Immediately flush eyes with water. After inhalation: Negligible. After swallowing: Do not swallow. Not considered to be orally toxic.



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Section 5: Fire-Fighting Measures

Non-Flammable: No hazardous combustion ingredients. Product is water based. Will not ignite.

Section 6: Accidental Release Measures

Spill/leak procedure: Rinse affected area with water and dry.

Measures for environmental disposal: Dispose of as non-hazardous waste in accordance with local regulations. PFAS free.

Section 7: Handling and Storage

Handling:

Respiratory Protection: not required.

Ventilation: under ordinary/normal conditions for intended use, no special ventilation is required. **Protective gloves:** wear if there is prolonged skin contact as natural surfactants can dry skin. **Eye Protection:** wear if needed to prevent reasonable probability of eye contact.

Storage: Store in temperatures between 32°F to 120°F in closed containers to prevent evaporation and/or deterioration. Freezing will not damage material as long as container remains intact.

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: Wash hands prior and after handling as per general hygiene measures. No special protective equipment required.

Section 9: Physical and Chemical Properties

Form: Clear, surfactant blend wetting agent
Odor: fresh, clean smell
pH: 6.3 in concentrate form. Neutral when diluted.
Vapor pressure: same as water
Specific Gravity: 1.02 @ 60 degrees Fahrenheit
Solubility in/Miscibility with water: 100%; soluble
Viscosity: 71 (centipoises)
Surface Tension: 30.2 dyne/cm (concentrate)

Section 10: Stability and Reactivity

Reactivity: none

Incompatibility: none Chemical stability: Product is stable

Corrosion: Product is non-corrosive. Tested in accordance with DOT standard 49 CFR 173.136 **Separation Temperature:** No separation when stored between 32°F and 120°F **Separation on Standing:** No separation when standing

Hazardous decomposition products: Carbon monoxide and carbon dioxide

Section 11: Toxicological Information

Toxicity: In accordance with US EPA Office of Pollution Prevention and Toxics criteria for ranking the acute toxicity of chemicals in the aquatic environment, Cold Fire is considered to be of low concern.

-96 hour acute toxicity versus freshwater algae (selenastrum capricornutum) IAW 40 CFR 797.1050 showed Cold Fire was algicidal at concentrations above 750 ppm.
-96 hour acute toxicity versus juvenile rainbow trout (oncorhynchus mykiss) IAW 49 CFR 797. 1400 showed an LC50 of 105 ppm.



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Section 12: Ecological Information (non-mandatory)

Biodegradability: Product is 100% biodegradable in an active environment within 21 days. **Product is PFAS free.**

Section 13: Disposal Considerations (non-mandatory)

Dispose of as non-hazardous waste in accordance with local regulations.

Section 14: Transport Information (non-mandatory)

NMFC Code: 69160 US DOT Hazard Class: Not regulated by DOT US DOT Identification Number: Not applicable

Section 15: Regulatory Information (non-mandatory)

-UL Listed Wetting Agent for Class A & B Fires. Tested in accordance with NFPA 18 Wetting Agents, UL 162 and UL 711.

-ULC (Canada) Listed Wetting for Class A & B Fires. C-175

-EPA-SNAP listed as an alternative to halon for fire suppression.

-PFAS free

*International:

Chile: tested and certified for Class A, B, C, D & K as per CESMEC

Section 16: Other Information

SDS date of preparation/update: August 10, 2020



SAFETY DATA SHEET

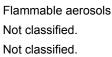
1. Identification

Product number Product identifier Company information Company phone Emergency telephone US Emergency telephone outside US	1000028751 13 OZ NAPA MAC'S BATTERY TERMINAL CLEANER 1072 NAPA Balkamp 2601 Stout Heritage Parkway Plainfield, IN 46168 United States General Assistance 1-317-754-3900 1-866-836-8855 1-952-852-4646
Version #	01
Recommended use	CLEANER
Recommended restrictions	None known.

2. Hazard(s) identification

Physical hazards	
Health hazards	
OSHA defined hazards	

Label elements



Category 1



Signal word	Danger
Hazard statement	Extremely flammable aerosol.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
Response	Wash hands after handling.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	2.5 - 10
Isopropyl Alcohol		67-63-0	2.5 - 10
Propane		74-98-6	2.5 - 10
Sodium Carbonate Anhydrous		497-19-8	1 - 2.5
Other components below report	able levels		80 - 90

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Skin contact If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Not available.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS.

Environmental precautions

7. Handling and storage

Precautions for safe handling Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flam

Avoid discharge into drains, water courses or onto the ground.

50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Туре	Value	
Isopropyl Alcohol (CAS 67-63-0)	PEL	980 mg/m3	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Тур	e	Va	alue
			40	00 ppm
Propane (CAS 74-98-6)	PEL		18	300 mg/m3
			10	000 ppm
US. ACGIH Threshold Li	mit Values			
Components	Тур	e	Va	alue
Butane (CAS 106-97-8)	STE	L	1(000 ppm
Isopropyl Alcohol (CAS 67-63-0)	STE	L	40	00 ppm
	TW	Ą	20	00 ppm
US. NIOSH: Pocket Guid	e to Chemical Hazards			
Components	Тур	e	Va	alue
Butane (CAS 106-97-8)	TW	4	19	000 mg/m3
			80	00 ppm
Isopropyl Alcohol (CAS 67-63-0)	STE	L	12	225 mg/m3
			50	00 ppm
	TW	Ą	98	30 mg/m3
			40	00 ppm
Propane (CAS 74-98-6)	TW	Ą	18	800 mg/m3
			10)00 ppm
logical limit values				
ACGIH Biological Expos	ure Indices			
Components	Value	Determinant	Specimen	Sampling Time
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
* - For sampling details, pl	ease see the source doo	cument.		
propriate engineering htrols	should be matched or other engineerir	I to conditions. If ap ig controls to maint	oplicable, use pro ain airborne leve	hour) should be used. Ventilation rates ocess enclosures, local exhaust ventilati Is below recommended exposure limits. rborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.	
Other	Wear suitable protective clothing.	
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Gas.
Aerosol.
Not available.
Not available.
Not available.

рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	-156.0 °F (-104.4 °C) PROPELLANT estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2.5 % estimated
Flammability limit - upper (%)	12 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	60 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.95 @70F estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Nitrates. Isocyanates. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological effe	ects

Acute toxicity

Butane (CAS 106-97-8) Acute Inhalation LC50 Isopropyl Alcohol (CAS 67-63-0) Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50 Sodium Carbonate Anhydrous (CAS 4	Mouse Rat Rabbit Rat Rat	1237 mg/l, 120 Minutes 52 %, 120 Minutes 1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours 5.84 g/kg
Inhalation LC50 Isopropyl Alcohol (CAS 67-63-0) Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rat Rabbit Rat Rat	52 %, 120 Minutes 1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
LC50 Isopropyl Alcohol (CAS 67-63-0) Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rat Rabbit Rat Rat	52 %, 120 Minutes 1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
Isopropyl Alcohol (CAS 67-63-0) Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rat Rabbit Rat Rat	52 %, 120 Minutes 1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rabbit Rat Rat	1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rabbit Rat Rat	16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rat	> 10000 ppm, 6 Hours
Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	> 10000 ppm, 6 Hours
LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	> 10000 ppm, 6 Hours
Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	> 10000 ppm, 6 Hours
LC50 Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	
Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	
LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50		5.84 g/kg
Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50		
Acute Inhalation LC50		
Inhalation LC50		
Sodium Carbonate Anhydrous (CAS 4	Mouse	1237 mg/l, 120 Minutes
Sodium Carbonate Anhydrous (CAS 4		52 %, 120 Minutes
Sodium Carbonate Anhydrous (CAS 4	Rat	1355 mg/l
Sodium Carbonate Anhydrous (CAS		658 mg/l/4h
	497-19-8)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Guinea pig	800 mg/m3, 2 Hours
Aerosol		
LC50	Mouse	1200 mg/m3, 2 Hours
	Rat	2300 mg/m3, 2 Hours
LC50	Rat	2.3 mg/l, 2 hours supplier
Oral		
LD50	Rat	2800 mg/kg
* Estimates for product may be b	ased on additional component data not shown.	
	rolonged skin contact may cause temporary irritation	
Serious eye damage/eye D irritation	irect contact with eyes may cause temporary irritatio	n.
Respiratory or skin sensitization		
	lot a respiratory sensitizer.	
Skin sensitization T	his product is not expected to cause skin sensitizatio	n.
	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity T	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall Eva Not listed.	luation of Carcinogenicity	
	ubstances (29 CFR 1910.1001-1050)	
	am (NTP) Report on Carcinogens	
Reproductive toxicity T		

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not likely, due to the form of the product.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Isopropyl Alcohol (CA	S 67-63-0)		
Aquatic			
Algae	IC50	Algae	1000.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Sodium Carbonate Ar	hydrous (CAS 497	-19-8)	
Aquatic			
Crustacea	EC50	Daphnia	265 mg/L, 48 Hours
		Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-o	ctanol / water (log Kow)	
Butane	2.89	
Isopropyl Alcohol	0.05	
Propane	2.36	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82

Packaging exceptions Packaging non bulk	306 None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
· · ·	r Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	None
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for use	r Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

DOT



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0)

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Formaldehyde (CAS 50-00-0) Lis	ed: January 1, 1988
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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date Version #	06-27-2016 01
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	Product and Company Identification: Product and Company Identification

SAFETY DATA SHEET

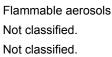
1. Identification

Product number Product identifier Company information Company phone Emergency telephone US Emergency telephone outside US	1000028751 13 OZ NAPA MAC'S BATTERY TERMINAL CLEANER 1072 NAPA Balkamp 2601 Stout Heritage Parkway Plainfield, IN 46168 United States General Assistance 1-317-754-3900 1-866-836-8855 1-952-852-4646
Version #	01
Recommended use	CLEANER
Recommended restrictions	None known.

2. Hazard(s) identification

Physical hazards	
Health hazards	
OSHA defined hazards	

Label elements



Category 1



	Signal word	Danger
Hazard statement Extremely flammable aerosol.		Extremely flammable aerosol.
	Precautionary statement	
	Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
	Response	Wash hands after handling.
	Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
	Disposal	Dispose of waste and residues in accordance with local authority requirements.
	Hazard(s) not otherwise classified (HNOC)	None known.
	Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	2.5 - 10
Isopropyl Alcohol		67-63-0	2.5 - 10
Propane		74-98-6	2.5 - 10
Sodium Carbonate Anhydrous		497-19-8	1 - 2.5
Other components below report	able levels		80 - 90

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Skin contact If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Not available.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS.

Environmental precautions

7. Handling and storage

Precautions for safe handling Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

 Conditions for safe storage, including any incompatibilities
 Level 1 Aerosol.

 Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flam

Avoid discharge into drains, water courses or onto the ground.

50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for A	Air Contaminants (29 CFR 1910.	1000)	
Components	Туре	Value	
Isopropyl Alcohol (CAS 67-63-0)	PEL	980 mg/m3	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Тур	e	Va	alue
			40	00 ppm
Propane (CAS 74-98-6)	PEL		18	300 mg/m3
			10	000 ppm
US. ACGIH Threshold Li	mit Values			
Components	Тур	e	Va	alue
Butane (CAS 106-97-8)	STE	L	1(000 ppm
Isopropyl Alcohol (CAS 67-63-0)	STE	L	40	00 ppm
	TW	Ą	20	00 ppm
US. NIOSH: Pocket Guid	e to Chemical Hazards			
Components	Тур	e	Va	alue
Butane (CAS 106-97-8)	TW	4	19	000 mg/m3
			80	00 ppm
Isopropyl Alcohol (CAS 67-63-0)	STE	L	12	225 mg/m3
			50	00 ppm
	TW	Ą	98	30 mg/m3
			40	00 ppm
Propane (CAS 74-98-6)	TW	Ą	18	800 mg/m3
			10)00 ppm
logical limit values				
ACGIH Biological Expos	ure Indices			
Components	Value	Determinant	Specimen	Sampling Time
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
* - For sampling details, pl	ease see the source doo	cument.		
propriate engineering htrols	should be matched or other engineerir	I to conditions. If ap ig controls to maint	oplicable, use pro ain airborne leve	hour) should be used. Ventilation rates ocess enclosures, local exhaust ventilati Is below recommended exposure limits. rborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.	
Other	Wear suitable protective clothing.	
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Appearance	
Physical state	Gas.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.

рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	-156.0 °F (-104.4 °C) PROPELLANT estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2.5 % estimated
Flammability limit - upper (%)	12 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	60 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.95 @70F estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Nitrates. Isocyanates. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
Information on toxicological effects		

Acute toxicity

Butane (CAS 106-97-8) Acute Inhalation LC50 Isopropyl Alcohol (CAS 67-63-0) Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50 Sodium Carbonate Anhydrous (CAS 4	Mouse Rat Rabbit Rat Rat	1237 mg/l, 120 Minutes 52 %, 120 Minutes 1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours 5.84 g/kg
Inhalation LC50 Isopropyl Alcohol (CAS 67-63-0) Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rat Rabbit Rat Rat	52 %, 120 Minutes 1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
LC50 Isopropyl Alcohol (CAS 67-63-0) Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rat Rabbit Rat Rat	52 %, 120 Minutes 1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
Isopropyl Alcohol (CAS 67-63-0) Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rat Rabbit Rat Rat	52 %, 120 Minutes 1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rabbit Rat Rat	1355 mg/l 16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rabbit Rat Rat	16.4 ml/kg, 24 Hours > 10000 ppm, 6 Hours
Acute Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) Acute Inhalation LC50	Rat	> 10000 ppm, 6 Hours
Dermal LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	> 10000 ppm, 6 Hours
LD50 Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	> 10000 ppm, 6 Hours
Inhalation LC50 Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	> 10000 ppm, 6 Hours
LC50 Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	
Oral LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50	Rat	
LD50 Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50		5.84 g/kg
Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50		
Acute Inhalation LC50		
Inhalation LC50		
Sodium Carbonate Anhydrous (CAS 4	Mouse	1237 mg/l, 120 Minutes
Sodium Carbonate Anhydrous (CAS 4		52 %, 120 Minutes
Sodium Carbonate Anhydrous (CAS 4	Rat	1355 mg/l
Sodium Carbonate Anhydrous (CAS		658 mg/l/4h
	497-19-8)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Guinea pig	800 mg/m3, 2 Hours
Aerosol		
LC50	Mouse	1200 mg/m3, 2 Hours
	Rat	2300 mg/m3, 2 Hours
LC50	Rat	2.3 mg/l, 2 hours supplier
Oral		
LD50	Rat	2800 mg/kg
* Estimates for product may be b	ased on additional component data not shown.	
	rolonged skin contact may cause temporary irritation	
Serious eye damage/eye D irritation	irect contact with eyes may cause temporary irritatio	n.
Respiratory or skin sensitization		
	lot a respiratory sensitizer.	
Skin sensitization T	his product is not expected to cause skin sensitizatio	n.
	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity T	his product is not considered to be a carcinogen by I	ARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Eva Not listed.	luation of Carcinogenicity	
	ubstances (29 CFR 1910.1001-1050)	
	am (NTP) Report on Carcinogens	
Reproductive toxicity T		

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not likely, due to the form of the product.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Isopropyl Alcohol (CA	S 67-63-0)		
Aquatic			
Algae	IC50	Algae	1000.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Sodium Carbonate Ar	hydrous (CAS 497	-19-8)	
Aquatic			
Crustacea	EC50	Daphnia	265 mg/L, 48 Hours
		Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-o	ctanol / water (log Kow)
Butane	2.89
Isopropyl Alcohol	0.05
Propane	2.36
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for use	er Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82

Packaging exceptions Packaging non bulk	306 None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
· · ·	r Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	None
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for use	r Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

DOT



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0)

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Formaldehyde (CAS 50-00-0) Lis	ed: January 1, 1988
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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date Version #	06-27-2016 01
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	Product and Company Identification: Product and Company Identification

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Date of issue/Date of revision 13 June 2020 Version 9

Section 1. Identification		
Product name	: 35-310 GRAND DISTINCTION PAINT/PRIMER IN ONE INTERIOR SEMI-GLOSS- WHITE/PASTEL BASE	
Product code	: 00400452	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Consumer applications, Professional applications.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer <u>Emergency telephone</u> <u>number</u>	 PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272 (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México) 	
Technical Phone Number	: 1-800-441-9695 (8:00 am to 5:00 pm EST)	

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 22.3% (Oral), 22.3% (Dermal), 22.3% (Inhalation)
	This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).
GHS label elements	

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Section 2. Hazards identification

Hazard pictograms



Signal word Hazard statements	: Warning : Suspected of causing cancer.
Precautionary statements	
Prevention	: Øbtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection.
Response	: 📭 exposed or concerned: Get medical advice or attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	 Contains isothiazolinones. May cause allergic reaction. Sanding and grinding dusts may be harmful if inhaled. Emits toxic fumes when heated.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

: Mixture

Product name

Substance/mixture

: 35-310 GRAND DISTINCTION PAINT/PRIMER IN ONE INTERIOR SEMI-GLOSS-WHITE/PASTEL BASE

Ingredient name	%	CAS number
Manium dioxide	≥10 - ≤20	13463-67-7

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Description of necessary first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
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Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
	: No specific data.

Indication of immediate me	<u>dical attention and special treatment needed, if necessary</u>
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: 🕅 a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel		No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	-	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	nt	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	-	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Section 7. Handling and storage

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exp	Exposure limits		
		OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2019). TWA: 10 mg/m ³ 8 hours.			
	Key to abbreviation	ns			
А	= Acceptable Maximum Peak	S	 Potential skin absorption 		
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	 Respiratory sensitization 		
С	= Ceiling Limit	SS	= Skin sensitization		
F = Fume		STEL	 Short term Exposure limit values 		

TD

TLV

TWA

= Total dust

= Threshold Limit Value

= Time Weighted Average

= Fume

IPEL = Internal Permissible Exposure Limit OSHA = Occupational Safety and Health Administration.

R = Respirable Ζ

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety glasses with side shields.
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Section 8. Exposure controls/personal protection

Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Appearance		
Physical state	uid.	
Color	t available.	
Odor	aracteristic.	
Odor threshold	t available.	
рН	t available.	
Melting point	t available.	
Boiling point	7.78°C (>100°F)	
Flash point	sed cup: 113.33°C (236°F) [Product does not sustain combustion	ı.]
Auto-ignition temperature	t available.	
Decomposition temperature	t available.	
Flammability (solid, gas)	t available.	
Lower and upper explosive (flammable) limits	t available.	
Evaporation rate	t available.	
Vapor pressure	t available.	
Vapor density	t available.	
Relative density	2	
Density(lbs / gal)	18	
Solubility	uble in the following materials: cold water.	
Partition coefficient: n- octanol/water	t available.	
Viscosity	ematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)	

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Section 9. Physical and chemical properties

Volatility

: 65% (v/v), 52.927% (w/w)

% Solid. (w/w)

: 47.073

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

<u>Acute</u>	toxicity	

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: There are no data available on the	he mixture itse	lf.	
rritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available on the	he mixture itse	lf.	
Eyes	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
Sensitization				
Conclusion/Summary				
Skin	: There are no data available on the	he mixture itse	lf.	
Respiratory	: There are no data available on the mixture itself.			
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data available on the mixture itself.			
Carcinogenicity				
Conclusion/Summary	: There are no data available on t	he mixture itse	lf.	

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Section 11. Toxicological information

Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Target organs

: Contains material which may cause damage to the following organs: upper respiratory tract.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: No known significant effects or critical hazards.		
Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/sym	ptoms		
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	: No specific data.		
Ingestion	: No specific data.		
Delayed and immediate effe	ects and also chronic effects from short and long term exposure		
Conclusion/Summary	: There are no data available on the mixture itself. Contains isothiazolinones. May cause allergic reaction. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea,		

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Section 11. Toxicological information

	diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	iects
General	: No known significant effects or critical hazards.
Carcinogenicity	 Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Section 12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

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Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	1	1	
	DOT	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class (es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

DOT: None identified.IMDG: None identified.IATA: None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

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Product name 35-310 GRAND DISTINCTION PAINT/PRIMER IN ONE INTERIOR SEMI-GLOSS-WHITE/PASTEL BASE

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : At least one component is inactive.

	A 5(e) - Substances consent order: cohol, reaction products	Listed
	A 5(a)2 - Proposed significant new use rules: cohol, reaction products	Listed
SARA 302/304		
SARA 304 RQ	: Not applicable.	

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

: CARCINOGENICITY - Category 2

Composition/information on ingredients

Name	%	Classification
titanium dioxide	≥10 - ≤20	CARCINOGENICITY - Category 2

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 1 * Flammability : 1 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)Health : 1Flammability : 1Instability : 0Date of previous issue: 4/11/2020Organization that prepared: EHSthe MSDS

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Product name 35-310 GRAND DISTINCTION PAINT/PRIMER IN ONE INTERIOR SEMI-GLOSS-WHITE/PASTEL BASE

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
_	

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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Date of issue/Date of revision 13 June 2020 Version 9

Section 1. Identifi	ication
Product name	: 35-310 GRAND DISTINCTION PAINT/PRIMER IN ONE INTERIOR SEMI-GLOSS- WHITE/PASTEL BASE
Product code	: 00400452
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Consumer applications, Professional applications.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Manufacturer <u>Emergency telephone</u> <u>number</u>	 PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272 412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 1-800-441-9695 (8:00 am to 5:00 pm EST)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 22.3% (Oral), 22.3% (Dermal), 22.3% (Inhalation)
	This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).
GHS label elements	

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Section 2. Hazards identification

Hazard pictograms

Product name



Signal word Hazard statements	: Warning : Suspected of causing cancer.
Precautionary statements	
Prevention	: Øbtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection.
Response	: 🜾 exposed or concerned: Get medical advice or attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	 Contains isothiazolinones. May cause allergic reaction. Sanding and grinding dusts may be harmful if inhaled. Emits toxic fumes when heated.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture •

35-310 GRAND DISTINCTION PAINT/PRIMER IN ONE INTERIOR SEMI-GLOSS-WHITE/PASTEL BASE

Ingredient name	%	CAS number
Manium dioxide	≥10 - ≤20	13463-67-7

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Description of necessary first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
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or use recognized skin cleanser. Do NOT use solvents or thinners.
: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
ms/effects, acute and delayed

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
	: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: 🕅 a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel		No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	-	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	nt	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	-	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Section 7. Handling and storage

Conditions for safe storage,	: Do not store below the following temperature: 5°C (41°F). Store in accordance with
including any	local regulations. Store in original container protected from direct sunlight in a dry, cool
incompatibilities	and well-ventilated area, away from incompatible materials (see Section 10) and food
	and drink. Store locked up. Keep container tightly closed and sealed until ready for use.
	Containers that have been opened must be carefully resealed and kept upright to
	prevent leakage. Do not store in unlabeled containers. Use appropriate containment to
	avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits			
<mark>M</mark> anium dioxide		OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2019). TWA: 10 mg/m ³ 8 hours.			
	Key to abbreviation	IS			
А	= Acceptable Maximum Peak	S = Potential skin absorption			
ACGIH	 American Conference of Governmental Industrial Hygienists. 	SR = Respiratory sensitization			
С	= Ceiling Limit	SS = Skin sensitization			
F	= Fume	STEL = Short term Exposure limit values			

TD

TLV

TWA

= Total dust

= Threshold Limit Value

= Time Weighted Average

IPEL = Internal Permissible Exposure Limit OSHA = Occupational Safety and Health Administration.

= Respirable R

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances Ζ

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety glasses with side shields.
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Section 8. Exposure controls/personal protection

Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Appearance		
Physical state	1	Liquid.
Color	4	Not available.
Odor	:	Characteristic.
Odor threshold	1	Not available.
рН	÷	Not available.
Melting point	4	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	:	Closed cup: 113.33°C (236°F) [Product does not sustain combustion.]
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Evaporation rate	1	Not available.
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Relative density	1	1.22
Density(Ibs / gal)	:	10.18
Solubility	:	Soluble in the following materials: cold water.
Partition coefficient: n- octanol/water	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

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Section 9. Physical and chemical properties

Volatility

: 65% (v/v), 52.927% (w/w)

% Solid. (w/w)

: 47.073

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

<u>Acute</u>	toxicity	

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: There are no data available on the	he mixture itself	f.	
rritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available on the	he mixture itself	f.	
Eyes	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
<u>Sensitization</u>				
Conclusion/Summary				
Skin	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data available on the	he mixture itself	f.	
Carcinogenicity				
Conclusion/Summary	: There are no data available on t	he mixture itself	f	

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Section 11. Toxicological information

Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Target organs

: Contains material which may cause damage to the following organs: upper respiratory tract.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

Eye contact	contact : No known significant effects or critical hazards.	
Inhalation : No known significant effects or critical hazards.		
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/sym	ptoms	
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: No specific data.	
Ingestion	: No specific data.	
Delayed and immediate effe	ects and also chronic effects from short and long term exposure	
Conclusion/Summary	: There are no data available on the mixture itself. Contains isothiazolinones. May cause allergic reaction. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea,	

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Section 11. Toxicological information

	diarrhea and vomiting. This takes into account, where known, delayed and immediat effects and also chronic effects of components from short-term and long-term exposite by oral, inhalation and dermal routes of exposure and eye contact.	
<u>Short term exposure</u>		
Potential immediate effects	There are no data available on the mixture itself.	
Potential delayed effects	There are no data available on the mixture itself.	
<u>Long term exposure</u>		
Potential immediate effects	There are no data available on the mixture itself.	
Potential delayed effects	There are no data available on the mixture itself.	
Potential chronic health eff	<u>è</u>	
General	No known significant effects or critical hazards.	
Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity	No known significant effects or critical hazards.	
Developmental effects	No known significant effects or critical hazards.	
Fertility effects	No known significant effects or critical hazards.	

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

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Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	1	1	
	DOT	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class (es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

DOT: None identified.IMDG: None identified.IATA: None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

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Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : At least one component is inactive.

	A 5(e) - Substances consent order: cohol, reaction products	Listed
United States - TSCA partially fluorinated alo	Listed	
SARA 302/304		
SARA 304 RQ	: Not applicable.	

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

: CARCINOGENICITY - Category 2

Composition/information on ingredients

Name	%	Classification
titanium dioxide	≥10 - ≤20	CARCINOGENICITY - Category 2

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 1 * Flammability : 1 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)Health : 1Flammability : 1Instability : 0Date of previous issue: 4/11/2020Organization that prepared: EHSthe MSDS

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Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
_	

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.



Safety Data Sheet

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Document Group:	19-7982-2	Version Number:	6.00
Issue Date:	11/18/14	Supercedes Date:	06/30/09

SECTION 1: Identification

1.1. Product identifier

3M(TM) Dust Remover AV152A, AV152A-B, AV152B

Product Identification Numbers

 $\begin{array}{l} 44-0051-5415-6,\ 70-0050-0173-3,\ 70-0050-0269-9,\ 70-0050-1903-2,\ 70-0050-2436-2,\ 70-0050-3890-9,\ 70-0050-4373-5,\ 70-0050-4565-6,\ 70-0050-4715-7,\ 70-0050-7309-6,\ 70-0050-7316-1,\ 70-0050-7986-1,\ 70-0050-8052-1,\ 70-0051-0911-4,\ 70-0051-1956-8,\ 70-0051-2011-1,\ 70-0051-2013-7,\ 70-0051-2070-7,\ 70-0051-3321-3,\ 70-0051-4224-8,\ 70-0051-4480-6,\ 70-0051-4540-7,\ 70-0051-6293-1,\ 70-0051-6628-8,\ 70-0051-6856-5,\ 70-0713-0457-3,\ 70-0713-0458-1,\ 70-0713-2085-0,\ 70-0713-2286-4,\ 70-0713-5096-4,\ 70-0713-6798-4,\ 70-0713-7295-0,\ 70-0713-8144-9,\ 70-0713-8166-2,\ 70-0713-9180-2,\ 70-0713-9333-7,\ 70-0713-9390-7,\ 70-0714-1472-9,\ 70-0714-1595-7,\ 70-0714-2146-8,\ 70-0714-2147-6,\ 70-0714-2212-8,\ 70-0714-2417-3,\ 70-0714-2418-1,\ 70-0714-2419-9,\ 70-0714-7652-0,\ 70-0714-8282-5,\ 70-0714-8283-3,\ 70-0714-8298-1,\ 70-0714-8977-0,\ 70-0714-9081-0,\ 70-0714-9437-4,\ 70-0715-0658-1\end{array}$

1.2. Recommended use and restrictions on use

Recommended use

Compressed gas duster.

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Stationery and Office Supplies Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Flammable Aerosol: Category 2. Specific Target Organ Toxicity (single exposure): Category 1. Specific Target Organ Toxicity (central nervous system): Category 3.

2.2. Label elements

Signal word Danger

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements Flammable aerosol.

May cause drowsiness or dizziness.

Causes damage to organs: cardiovascular system |

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed: Call a POISON CENTER or doctor/physician. Specific treatment (see Notes to Physician on this label).

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

2.3. Hazards not otherwise classified

May cause frostbite.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
1,1-DIFLUOROETHANE	75-37-6	> 99.65 Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. Get medical attention.

Skin Contact:

Thaw frosted skin with lukewarm water. Do not rub affected area. Get medical attention.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbonyl Fluoride	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Fluoride	During Combustion

5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe thermal decomposition products. Do not use in a confined area with minimal air exchange. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
1,1-DIFLUOROETHANE	75-37-6	CMRG	TWA:1000 ppm	
1,1-DIFLUOROETHANE	75-37-6	AIHA	TWA:2700 mg/m3(1000 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Indirect Vented Goggles

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear cold insulating gloves/face shield/eye protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Odor, Color, Grade:Clear, colorless with slight ethereal odor.Odor thresholdNo Data AvailablepHNot ApplicableMelting point-13 °FBoiling Point-13 °FFlash Point< -50 °F [Details: consumer aerosol does not exhibit a flame projection, therefore it is not determined to be flammable as defined in 16 CFR, Section 1500.3(c)(6)(viii).]Evaporation rateNot ApplicableFlammability (solid, gas)Flammable Aerosol: Category 2.Flammable Limits(LEL)3.9 % volumeVapor Pressure87 psia [@ 77 °F]Vapor Density2.4 [Ref Std: AIR=1]Density0.9 g/cm3 [Details: Liquid]Solubility In Water0.28 %Solubility - non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutognition temperatureNot ApplicableViecomityNo tApplicable	General Physical Form:	Gas
pHNot ApplicableMelting pointNot ApplicableBoiling Point-13 °FFlash Point-13 °FFlash Point< -50 °F [Details: consumer aerosol does not exhibit a flame projection, therefore it is not determined to be flammable as defined in 16 CFR, Section 1500.3(c)(6)(viii).]Evaporation rateNot ApplicableFlammability (solid, gas)Flammable Aerosol: Category 2.Flammable Limits(LEL)3.9 % volumeFlammable Limits(UEL)16.9 % volumeVapor Pressure87 psia [@ 77 °F]Vapor Density2.4 [Ref Std: AIR=1]Density0.9 g/cm3 [Details: Liquid]Specific Gravity0.9 [Ref Std: WATER=1] [Details: Liquid]Solubility In Water0.28 %Solubility - non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperature849 °FDecomposition temperatureNot Applicable	Odor, Color, Grade:	Clear, colorless with slight ethereal odor.
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projection, therefore it is not determined to be flammable as defined in 16 CFR, Section 1500.3(c)(6)(viii).]Evaporation rateNot ApplicableFlammability (solid, gas)Flammable Aerosol: Category 2.Flammable Limits(LEL)3.9 % volumeFlammable Limits(UEL)16.9 % volumeVapor Pressure87 psia [@ 77 °F]Vapor Density2.4 [Ref Std: AIR=1]Density0.9 g/cm3 [Details: Liquid]Specific Gravity0.9 [Ref Std: WATER=1] [Details: Liquid]Solubility In Water0.28 %Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperature849 °FDecomposition temperatureNot Applicable	Boiling Point	-13 °F
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Autoignition temperature849 °FDecomposition temperatureNot Applicable	Solubility- non-water	No Data Available
Decomposition temperature Not Applicable	Partition coefficient: n-octanol/ water	No Data Available
	Autoignition temperature	849 °F
Viscosity Not Applicable	Decomposition temperature	Not Applicable
ν ιστοριία Τισι Αρμιτασίε	Viscosity	Not Applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

10.5. Incompatible materials

Alkali and alkaline earth metals

10.6. Hazardous decomposition products

Substance None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

Skin Contact:

Frostbite: Signs/symptoms may include intense pain, discoloration of skin, and tissue destruction.

Eye Contact:

Frostbite: Signs/symptoms may include intense pain, clouding of the cornea, redness, swelling, and blindness.

Ingestion:

No health effects are expected.

Target Organ Effects:

Single exposure may cause:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or

Condition

the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Inhalation-		No data available; calculated ATE > 50,000 ppm
-	Gas(4 hr)		
1,1-DIFLUOROETHANE	Inhalation-	Rat	LC50 > 437,000 ppm
	Gas (4		
	hours)		
1,1-DIFLUOROETHANE	Ingestion	Rat	LD50 > 1,500 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Serious Eye Damage/Irritation		
Name	Species	Value
Skin Sensitization		
Name	Species	Value
Respiratory Sensitization		
Name	Species	Value

Germ Cell Mutagenicity

Name	Route	Value
1,1-DIFLUOROETHANE	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
1,1-DIFLUOROETHANE	In vivo	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

Name	Route	Species	Value
1,1-DIFLUOROETHANE	Inhalation	Rat	Some positive data exist, but the data are not
			sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
1,1-DIFLUOROETHANE	Inhalation	Not toxic to female reproduction	Rat	NOAEL 25,000 ppm	2 years
1,1-DIFLUOROETHANE	Inhalation	Not toxic to male reproduction	Rat	NOAEL 25,000 ppm	2 years
1,1-DIFLUOROETHANE	Inhalation	Not toxic to development	Rat	NOAEL 50,000 ppm	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
						Duration
1,1-DIFLUOROETHANE	Inhalation	cardiac	Causes damage to organs	Human	NOAEL Not	poisoning
		sensitization		and	available	and/or abuse
				animal		
1,1-DIFLUOROETHANE	Inhalation	central nervous	May cause drowsiness or	Human	NOAEL	
		system depression	dizziness	and	100,000 ppm	
				animal		
1,1-DIFLUOROETHANE	Inhalation	respiratory irritation	Some positive data exist, but the	Not	NOAEL Not	not available
			data are not sufficient for	available	available	

classification	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
1,1-DIFLUOROETHANE	Inhalation	hematopoietic system kidney and/or bladder respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 25,000 ppm	2 years

Aspiration Hazard

Name Value

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 Flammability: 4 Instability: 1 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 3 Flammability: 4 Physical Hazard: 1 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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Issue Date:	11/18/14	Supercedes Date:	06/30/09

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Safety Data Sheet

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Document Group:	19-7982-2	Version Number:	6.00
Issue Date:	11/18/14	Supercedes Date:	06/30/09

SECTION 1: Identification

1.1. Product identifier

3M(TM) Dust Remover AV152A, AV152A-B, AV152B

Product Identification Numbers

 $\begin{array}{l} 44-0051-5415-6,\ 70-0050-0173-3,\ 70-0050-0269-9,\ 70-0050-1903-2,\ 70-0050-2436-2,\ 70-0050-3890-9,\ 70-0050-4373-5,\ 70-0050-4565-6,\ 70-0050-4715-7,\ 70-0050-7309-6,\ 70-0050-7316-1,\ 70-0050-7986-1,\ 70-0050-8052-1,\ 70-0051-0911-4,\ 70-0051-1956-8,\ 70-0051-2011-1,\ 70-0051-2013-7,\ 70-0051-2070-7,\ 70-0051-3321-3,\ 70-0051-4224-8,\ 70-0051-4480-6,\ 70-0051-4540-7,\ 70-0051-6293-1,\ 70-0051-6628-8,\ 70-0051-6856-5,\ 70-0713-0457-3,\ 70-0713-0458-1,\ 70-0713-2085-0,\ 70-0713-2286-4,\ 70-0713-5096-4,\ 70-0713-6798-4,\ 70-0713-7295-0,\ 70-0713-8144-9,\ 70-0713-8166-2,\ 70-0713-9180-2,\ 70-0713-9333-7,\ 70-0713-9390-7,\ 70-0714-1472-9,\ 70-0714-1595-7,\ 70-0714-2146-8,\ 70-0714-2147-6,\ 70-0714-2212-8,\ 70-0714-2417-3,\ 70-0714-2418-1,\ 70-0714-2419-9,\ 70-0714-7652-0,\ 70-0714-8282-5,\ 70-0714-8283-3,\ 70-0714-8298-1,\ 70-0714-8977-0,\ 70-0714-9081-0,\ 70-0714-9437-4,\ 70-0715-0658-1\end{array}$

1.2. Recommended use and restrictions on use

Recommended use

Compressed gas duster.

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Stationery and Office Supplies Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Flammable Aerosol: Category 2. Specific Target Organ Toxicity (single exposure): Category 1. Specific Target Organ Toxicity (central nervous system): Category 3.

2.2. Label elements

Signal word Danger

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements Flammable aerosol.

May cause drowsiness or dizziness.

Causes damage to organs: cardiovascular system |

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed: Call a POISON CENTER or doctor/physician. Specific treatment (see Notes to Physician on this label).

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

2.3. Hazards not otherwise classified

May cause frostbite.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
1,1-DIFLUOROETHANE	75-37-6	> 99.65 Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. Get medical attention.

Skin Contact:

Thaw frosted skin with lukewarm water. Do not rub affected area. Get medical attention.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbonyl Fluoride	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Fluoride	During Combustion

5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe thermal decomposition products. Do not use in a confined area with minimal air exchange. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
1,1-DIFLUOROETHANE	75-37-6	CMRG	TWA:1000 ppm	
1,1-DIFLUOROETHANE	75-37-6	AIHA	TWA:2700 mg/m3(1000 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Indirect Vented Goggles

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear cold insulating gloves/face shield/eye protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:	Gas
Odor, Color, Grade:	Clear, colorless with slight ethereal odor.
Odor threshold	No Data Available
pH	Not Applicable
Melting point	Not Applicable
Boiling Point	-13 °F
Flash Point	< -50 °F [Details: consumer aerosol does not exhibit a flame
	projection, therefore it is not determined to be flammable as
	defined in 16 CFR, Section 1500.3(c)(6)(viii).]
Evaporation rate	Not Applicable
Flammability (solid, gas)	Flammable Aerosol: Category 2.
Flammable Limits(LEL)	3.9 % volume
Flammable Limits(UEL)	16.9 % volume
Vapor Pressure	87 psia [@ 77 °F]
Vapor Density	2.4 [<i>Ref Std:</i> AIR=1]
Density	0.9 g/cm3 [Details: Liquid]
Specific Gravity	0.9 [Ref Std: WATER=1] [Details: Liquid]
Solubility In Water	0.28 %
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	849 °F
Decomposition temperature	Not Applicable
Viscosity	Not Applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

10.5. Incompatible materials

Alkali and alkaline earth metals

10.6. Hazardous decomposition products

Substance None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

Skin Contact:

Frostbite: Signs/symptoms may include intense pain, discoloration of skin, and tissue destruction.

Eye Contact:

Frostbite: Signs/symptoms may include intense pain, clouding of the cornea, redness, swelling, and blindness.

Ingestion:

No health effects are expected.

Target Organ Effects:

Single exposure may cause:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or

Condition

the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Inhalation-		No data available; calculated ATE > 50,000 ppm
-	Gas(4 hr)		
1,1-DIFLUOROETHANE	Inhalation-	Rat	LC50 > 437,000 ppm
	Gas (4		
	hours)		
1,1-DIFLUOROETHANE	Ingestion	Rat	LD50 > 1,500 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Serious Eye Damage/Irritation		
Name	Species	Value
Skin Sensitization		
Name	Species	Value
Respiratory Sensitization		
Name	Species	Value

Germ Cell Mutagenicity

Name	Route	Value
1,1-DIFLUOROETHANE	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
1,1-DIFLUOROETHANE	In vivo	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

Name	Route	Species	Value
1,1-DIFLUOROETHANE	Inhalation	Rat	Some positive data exist, but the data are not
			sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
1,1-DIFLUOROETHANE	Inhalation	Not toxic to female reproduction	Rat	NOAEL 25,000 ppm	2 years
1,1-DIFLUOROETHANE	Inhalation	Not toxic to male reproduction	Rat	NOAEL 25,000 ppm	2 years
1,1-DIFLUOROETHANE	Inhalation	Not toxic to development	Rat	NOAEL 50,000 ppm	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
						Duration
1,1-DIFLUOROETHANE	Inhalation	cardiac	Causes damage to organs	Human	NOAEL Not	poisoning
		sensitization		and	available	and/or abuse
				animal		
1,1-DIFLUOROETHANE	Inhalation	central nervous	May cause drowsiness or	Human	NOAEL	
		system depression	dizziness	and	100,000 ppm	
				animal		
1,1-DIFLUOROETHANE	Inhalation	respiratory irritation	Some positive data exist, but the	Not	NOAEL Not	not available
			data are not sufficient for	available	available	

classification	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
1,1-DIFLUOROETHANE	Inhalation	hematopoietic system kidney and/or bladder respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 25,000 ppm	2 years

Aspiration Hazard

Name Value

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 Flammability: 4 Instability: 1 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 3 Flammability: 4 Physical Hazard: 1 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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INDUSTRIAL POLYCHEMICAL SERVICE -- 505 KEY TITE PIPE JOINT COMPOUND -- 8040-00N052839

Product ID:505 KEY TITE PIPE JOINT COMPOUND MSDS Date:03/01/1993 FSC:8040 NIIN:00N052839 MSDS Number: BWZKV === Responsible Party === Company Name: INDUSTRIAL POLYCHEMICAL SERVICE Address:17109 S MAIN Box:379 City:GARDENA State:CA ZIP:90248 Country:US Info Phone Num:213-321-6515 Emergency Phone Num:213-222-3212 800-424-9300(CHEMTREC) Preparer's Name: GEORGE BLANCO CAGE:17510 === Contractor Identification === Company Name: IPS CORPORATION Address:17109 S. MAIN ST., Box:379 City:GARDENA State:CA ZIP:90248 Country:US Phone: 310-898-3300 CAGE:17510 Ingred Name:PIGMENTS(NON-HAZARDOUS) Fraction by Wt: 50% Other REC Limits:NONE RECOMMENDED Ingred Name:LINSEED OIL CAS:8001-26-1 RTECS #:019690000 Fraction by Wt: 47% Other REC Limits:NONE RECOMMENDED Ingred Name:XYLENES (0-,M-,P- ISOMERS) (SARA 313) (CERCLA) CAS:1330-20-7 RTECS #:ZE2100000 Fraction by Wt: 3% Other REC Limits:NONE RECOMMENDED OSHA PEL:100 PPM ACGIH TLV:100 PPM/150STEL;9495 EPA Rpt Oty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name: VOLATILE ORGANIC CONTENT<42GM/L RTECS #:9999999VO Other REC Limits:NONE RECOMMENDED Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: EYES: MAY CAUSE IRRITATION. SKIN: MAY

CAUSE IRRITATION.INGEST:LOW ORDER OF TOXICITY.MAY CAUSE GI TRACT

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IRRITATION.INHAL:NOT REPORTED. Explanation of Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP, IARC OR OSHA. Effects of Overexposure: EYES/SKIN: IRRITATION. Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER. First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.EYES: FLUSH WITH WATER FOR 15 MINUTES.GET MEDICAL ATTENTION IF IRRITATION PERSISTS.INHAL: REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRA TION IF NEEDED.INGEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS, DRINK PLENTY OF WATER. Flash Point Method:COC Flash Point:180F,82C Extinguishing Media:WATER, DRY CHEMICAL, CARBON DIOXIDE, FOAM. Fire Fighting Procedures: USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS WITH WATER FOG. Unusual Fire/Explosion Hazard: FIRE CONDITIONS MAY EVOLVE TOXIC FUMES. Spill Release Procedures: ELIMINATE SOURCES OF IGNITION. USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.VENTILATE AREA.SOAK UP WITH A NON-COMBUSTIBLE INERT ABSORBANT(CLAY, SAND); PLACE IN PROPER CONTAINER FOR DISPOSAL.DO NOT CON TAMINATE GROUND OR WATERWAYS. Neutralizing Agent:NOT APPLICABLE. Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM HEAT, SPARKS, FLAMES AND INCOMPATIBLE MATERIALS. Other Precautions: GROUND CONTAINERS WHEN TRANSFERRING LIQUID; FLOWING HYDROCARBONS CAN BECOME ELECTROSTATICALLY CHARGED. Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A SELF-CONTAINED BREATHING APPARATUS. Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL. Protective Gloves:RUBBER Eye Protection: CHEMICAL SPLASH GOGGLES Other Protective Equipment: PROTECTIVE CLOTHING, AS NEEDED. PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA. Supplemental Safety and Health PREVIOUS MSDS, DATED 06SEP94, ENTERED BY FP-N WAS REDONE BY HMIS ON THIS DATE. HCC:V4 Spec Gravity:<1</pre> Evaporation Rate & Reference:>4 (NO REFERENCE GIVEN) Solubility in Water:SLIGHT Appearance and Odor:LIQUID, SEMI-SOLID; GREEN; LINSEED OIL ODOR.

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Stability Indicator/Materials to Avoid:YES
AVOID CONTACT WITH HYDROCARBON SOLVENTS(THIS PRODUCT IS SOLUBLE IN
HYDROCARBON SOLVENTS).
Stability Condition to Avoid:HIGH HEAT,SOURCES OF IGNITION.
Hazardous Decomposition Products:CARBON DIOXIDE,CARBON MONOXIDE.

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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SAFETY DATA SHEET



Date of issue/Date of revision16 November 2019Version 8.01

Section 1. Identification	
Product name	: 55-653 PITT BULL SPRAY COLD GALVANIZING
Product code	: 00356944
Other means of identification	: Not available.
Product type	: Aerosol.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Consumer applications, Professional applications.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 or + 52 55 5559 1588 (Mexico)
Technical Phone Number	: 1-800-441-9695 (8:00 am to 5:00 pm EST)

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 56.6% (Oral), 56.6% (Dermal), 31.8% (Inhalation)
CUS lobal elemente	

GHS label elements

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation. Suspected of damaging the unborn child. Suspected of causing cancer. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. It eye irritation persists: Get medical attention.
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Contents under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Do not puncture or incinerate. Keep away from heat and direct sunlight. Sanding and grinding dusts may be harmful if inhaled. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER FILLED METAL CONTAINER.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 3. Composition/information on ingredients

- Substance/mixture Product name
- : Mixture

: 55-653 PITT BULL SPRAY COLD GALVANIZING

Ingredient name	%	CAS number
zcetone	≥20 - ≤50	67-64-1
toluene	≥10 - ≤20	108-88-3
propane	≥10 - ≤20	74-98-6
butane	≥10 - ≤20	106-97-8
xylene	≥1.0 - ≤5.0	1330-20-7
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤5.0	64742-95-6
ethylbenzene	<1.0	100-41-4

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Most important sympt	coms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: Causes serious eye irritation.

Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or
	dizziness.
Skin contact	· Causes akin irritation. Defatting to the akin

- **Skin contact** : Causes skin irritation. Defatting to the skin.
- Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	 Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
indication of inmediate in	edical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialis quantities have been ingested or inhaled

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting

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Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 5. Fire-fighting measures

	effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	 If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
acetone	ACGIH TLV (United States, 3/2019).
	STEL: 500 ppm 15 minutes.
	TWA: 250 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 2400 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2019).
	TWA: 20 ppm 8 hours.
	United States Page: 6/17

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 8. Exposure controls/personal protection

Section 8. Exposure contr	ois/personal pro				
propane	OSHA PEL (United States, 5/2018). TWA: 1800 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.				
butane		ACGIH TLV (United States, 3/2019). Explosive potential.			
xylene		STEL: 1000 ppm 15 minutes. ACGIH TLV (United States, 3/2019). STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.			
		OSHA PEL (United States, 5/2018). TWA: 435 mg/m ³ 8 hours.			
Solvent naphtha (petroleum), light aromatic ethylbenzene	2	TWA: 100 ppm 8 hours. None. ACGIH TLV (United States, 3/2019). TWA: 20 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 435 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.			
	Key to abbreviations	·			
A = Acceptable Maximum Peak ACGIH = American Conference of Governmental In- C C = Ceiling Limit F = Fume IPEL = Internal Permissible Exposure Limit OSHA = Occupational Safety and Health Administr. R = Respirable Z = OSHA 29 CFR 1910.1200 Subpart Z - Tox	ation.	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average			
onsult local authorities for acceptable ex					
procedures atmospheres atmospheres the ventila protective Reference	re or biological monitoring ma tion or other control measure equipment. Reference shou	exposure limits, personal, workplace ay be required to determine the effectiveness of es and/or the necessity to use respiratory Id be made to appropriate monitoring standards. ents for methods for the determination of uired.			
ontrols other enginerity othere enginterity other enginerity other enginerity other enginer	neering controls to keep wor ided or statutory limits. The ust concentrations below any	e process enclosures, local exhaust ventilation or ker exposure to airborne contaminants below any engineering controls also need to keep gas, / lower explosive limits. Use explosion-proof			
nvironmental exposure : Emissions ontrols : they comp cases, fun	ly with the requirements of e	cess equipment should be checked to ensure nvironmental protection legislation. In some eering modifications to the process equipment to acceptable levels.			

Individual protection measures

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Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 8. Exposure controls/personal protection

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles.
Skin protection	
Hand protection	 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. For prolonged or repeated handling, use the following type of gloves:
010765	. To prolonged of repeated handling, use the following type of gloves.
	Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton® May be used: nitrile rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

	United States	Page: 8/17
: Not available.		
: Closed cup: -60°C (-76°F)		
: <35°C (<95°F)		
: Not available.		
: Not available.		
: Not available.		
: Characteristic.		
: Liquid. : Not available.		
	 Characteristic. Not available. Not available. Not available. <35°C (<95°F) Closed cup: -60°C (-76°F) 	 Not available. Characteristic. Not available. Not available. <35°C (<95°F) Closed cup: -60°C (-76°F) Not available. Not available. Not available. Not available. Not available.

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 9. Physical and chemical properties

Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	Not available.
Relative density	: 1.07
Density (lbs / gal)	: 8.93
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-	: Not available.
octanol/water	
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	: 46% (v/v), 76% (w/w)
% Solid. (w/w)	: 24
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 26.85 kJ/g

Section 10. Stability and reactivity							
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.						
Chemical stability	: The product is stable.						
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.						
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.						
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.						
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.						

Section 11. Toxicological information

Information on toxicological effects
Acute toxicity

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	-
light aromatic			0.0	
0	LD50 Oral	Rat	8400 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summers					

	<u>Classification</u> Product/ingredient name	_	OSHA	IARC	NTP
	Conclusion/Summary	ł	There are	e no data a	vailable on the mixture itself.
	arcinogenicity				
	Conclusion/Summary	1	There are	e no data av	vailable on the mixture itself.
Ν	lutagenicity				
	Respiratory	÷	There are	e no data av	vailable on the mixture itself.
	Skin	÷	There are	e no data av	vailable on the mixture itself.
	Conclusion/Summary				
5	ensitization				
	Respiratory	÷	There are	e no data av	vailable on the mixture itself.
	Eyes	÷	There are	e no data av	vailable on the mixture itself.
	Skin	÷	There are	e no data av	vailable on the mixture itself.
	Conclusion/Summary				

Product/ingredient name	OSHA	IARC	NTP
toluene	-	3	-
xylene	-	3	-
ethylbenzene	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Not listed/not regulated

Reproductive toxicity

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Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 11. Toxicological information

Conclusion/Summary : Th

: There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
acetone	Category 3	Not applicable.	Narcotic effects
toluene	Category 3	Not applicable.	Narcotic effects
xylene	Category 3	Not applicable.	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	- 55		Not determined Not determined
ethylbenzene	Category 2	Not determined	Not determined hearing organs

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, heart, gastrointestinal tract, upper respiratory tract, skin, eye, lens or cornea.

Aspiration hazard

Name	Result
toluene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Eye contact Inhalation	 Causes serious eye irritation. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact Ingestion	Causes skin irritation. Defatting to the skin.Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 11. Toxicological information

Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight
Skin contact	:	increase in fetal deaths skeletal malformations Adverse symptoms may include the following: irritation redness
		dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion		Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	<u>:ts a</u>	and also chronic effects from short and long term exposure
Conclusion/Summary	:	There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>		There are no data available on the mixture itself.
Potential immediate effects	÷	
Potential immediate		There are no data available on the mixture itself.
Potential immediate effects Potential delayed effects Long term exposure		
Potential immediate effects Potential delayed effects	:	
Potential immediate effects Potential delayed effects Long term exposure Potential immediate	:	There are no data available on the mixture itself.
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects		There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself.
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	: : : <u>ects</u>	There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself.

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United States

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 11. Toxicological information

- : No known significant effects or critical hazards.
- Mutagenicity Teratogenicity
- : Suspected of damaging the unborn child.
- Developmental effects Fertility effects
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
5-653 PITT BULL SPRAY COLD GALVANIZING	82942.2	16121.8	N/A	333.2	45.4
acetone	5800	15800	N/A	76	N/A
toluene	5580	8390	N/A	49	N/A
butane	N/A	N/A	N/A	658	N/A
xylene	4300	1100	N/A	11	1.5
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
0	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily
toluene	-	-	Readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
cetone	-0.24	3	low
toluene	2.73	8.32	low
propane	2.36	-	low
butane	2.89	-	low
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low

Mobility in soil

United States	Page: 13/17

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

	DOT	IMDG	IATA
UN number	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
Transport hazard class (es)	2.1	2.1	2.1
Packing group	-	-	-
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized), Solvent naphtha (petroleum), light aromatic)	Not applicable.
Product RQ (lbs)	4444.4	Not applicable.	Not applicable.
RQ substances	(xylene, toluene)	Not applicable.	Not applicable.

14. Transport information

Additional information

DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations.

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : All components are listed or exempted.

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
acetone	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
toluene	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
propane	≥10 - ≤20	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
butane	≥10 - ≤20	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
·		United States Page: 15/17

Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 15. Regulatory information

•	•	
xylene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATIÓN HAZARD - Ćategory 1
Solvent naphtha (petroleum),	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
light aromatic		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) (hearing organs) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant

<u>SARA 313</u>

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: toluene	108-88-3	10 - 30
	Zinc powder - zinc dust (stabilized)	7440-66-6	10 - 30
	xylene	1330-20-7	1 - 5
	ethylbenzene	100-41-4	0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 * Flammability : 4 Physical hazards : 1

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 2 Flammability : 4 Instability : 1

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Product name 55-653 PITT BULL SPRAY COLD GALVANIZING

Section 16. Other information

Date of previous issue	: 3/7/2019
Organization that prepared the MSDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.



08/25/2015

1. Identification					
1.1. Product identifier					
Product Identity	587				
Alternate Names	587				
1.2. Relevant identified uses of the substance of	1.2. Relevant identified uses of the substance or mixture and uses advised against				
Intended use	See Technical Data Sheet.				
Application Method	See Technical Data Sheet.				
1.3. Details of the supplier of the safety data sh	neet				
Company Name	John Tillman Company 1300 W. Artesia Blvd.				
Emorgoney	Compton, CA 90220. USA				
Emergency 24 hour Emergency Telephone No. Customer Service:	310-764-0110 310-764-0110				

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Eye Irrit. 2;H319 May cause eye irritation.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



H319 May cause eye irritation.

[Prevention]:

P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
[Response]:
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+313 If eye irritation persists: Get medical advice / attention.
[Storage]:



No GHS storage statements [Disposal]: No GHS disposal statements

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Fibrous glass CAS Number: 0065997-17-3	100	Eye Irrit. 2;H319	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Drink water to clear throat, blow nose to evacuate fibers.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
4.2. Most important sy	mptoms and effects, both acute and delayed
Overview	Exposure with the product may cause skin, eye, and respiratory tract irritation. See section 2 for further details.
Eyes	May cause eye irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Water, carbon dioxide, or dry chemical.



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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Carbon monoxide, carbon dioxide

5.3. Advice for fire-fighters

Thermal decomposition of fiber coating may produce an Irritating mixture of smoke and fumes. Fire fighters should wear full protective gear including NIOSH approved self-contained breathing apparatus.

ERG Guide No.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Prevent the spread of fiberglass dust & avoid dust generation conditions. Those involved in clean up of particulates should use appropriate personal protective equipment. Vacuum clean dusts. If sweeping is necessary, use a dust suppressant.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Store and use in a manner that will prevent airborne particulates in the workplace.

Incompatible materials: Strong oxidizing agents.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0065997-17-3	Fibrous glass, glass	OSHA	15 mg/m3 (as nuisance dust)5 mg/m3 (respirable fraction)
		ACGIH	10 mg/m3 (as nuisance dust)5 mg/m3 (respirable fraction)
		NIOSH	No Established Limit



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Supplier

No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0065997-17-3	Fibrous glass, glass	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls	
Respiratory	Where dust level exceeds the TLV, use NIOSH approved respirator to protect against nuisance dusts.
Eyes	Safety glasses with side shield goggles.
Skin	Work aprons or smocks are recommended. Wear loose fitting long sleeved clothing. NIOSH approved air supplied or self contained respirator. Protective Gloves and barrier creams if necessary.
Engineering Controls	Local Exhaust Recommended for processing machinery where dust generation is apparent. Mechanical exhaust is acceptable where local exhaust is not feasible.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Plain Weave Heavy Weight Fiberglass Fabric
Odor	No smell
Odor threshold	Not determined
рН	Not Measured
Melting point / freezing point	> 1000°F
Initial boiling point and boiling range	Not Measured
Flash Point	250°C (TOC)
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured
	Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	2.5
Solubility in Water	None
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured



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9.2. Other information No other relevant information.

10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.
10.2. Chemical stability
Stable under normal circumstances.
10.3. Possibility of hazardous reactions
No data available.
10.4. Conditions to avoid
No data available.
10.5. Incompatible materials
Strong oxidizing agents.
10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50,	Skin LD50,	Inhalation Vapor	Inhalation Dust	Inhalation Gas
	mg/kg	mg/kg	LC50, mg/L/4hr	LC50, mg/L/4hr	LC50, ppm
Fibrous glass, glass - (65997-17-3)	No data available				

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization		Not Applicable



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Skin sensitization	 Not Applicable
Germ cell mutagenicity	 Not Applicable
Carcinogenicity	 Not Applicable
Reproductive toxicity	 Not Applicable
STOT-single exposure	 Not Applicable
STOT-repeated exposure	 Not Applicable
Aspiration hazard	 Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data. Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish,	48 hr EC50 crustacea,	ErC50 algae,
	mg/l	mg/l	mg/l
Fibrous glass, glass - (65997-17-3)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

In most cases, woven fiberglass scrap can be disposed of in a sanitary landfill in accordance with Federal, State, & local regulations. Check with local authorities any questions concerning disposal.

14. Transport information

DOT (Domestic Surface Transportation) Not Applicable IMO / IMDG (Ocean Transportation) Not Regulated ICAO/IATA

Not Regulated

14.1. UN number

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The Brand Pros Del	mand SDS	Revision Date:	08/25/2015	
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated	
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable	
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable	
14.5. Environmental hazards				
IMDG Marine Pollutant: No				
14.6. Special precautions for user				
No further information				

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA) WHMIS Classification	All components of this material are either listed or exempt from listing on the TSCA Inventory. D2B
US EPA Tier II Hazards	Fire: No
	Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **New Jersey RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **Pennsylvania RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H319 Causes serious eye irritation.

End of Document

Safety Data Sheet (SDS)

Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

1.) Identification of the Mixture and of the Company

Product identifier: EPS Foam / Concrete Adhesive

Product name: 8178 EPS Foam / Concrete Adhesive

AERVOE

Relevant identified uses of the substance: :8178 EPS Foam / Concrete Adhesive can be used throughtout general industry and construction for bonding EPS to concrete and other EPS surfaces. Uses advised against: Poorly ventilated areas

CAS No:	Not Applicable (mixture)
EC No:	Not Applicable (mixture)
Index No:	Not Applicable (mixture)
Manufacturer/Supplier:	Aervoe Industries Incorporated
Street address/P.O. Box:	1100 Mark Circle
Country ID/Postcode/Place	Gardnerville, Nevada 89410
Telephone number:	1-775-782-0100
e-mail:	mailbox@aervoe.com
National contact:	Aervoe industries Incorporated
For Product Information:	1-800-227-0196
Emergency telephone number:	1-800-424-9300 (CHEMTREC – 24 hrs)

2. Hazards identification

Classifications

Physical Hazards:	Aerosol - Category 1 Flam. Gas 1 Press. Gas Flam. Liq. 2
Health Hazards:	
	Repr. 2 Asp. Tox. 1 STOT RE 2 Skin Irrit. 2 STOT SE 3 Eye Irrit. 2 Carc. 1B Muta. 1B Acute Tox. 4
Environmental Hazards:	Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2

Labeling

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Date Prepared/Revised: 12/4/18

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Signal Word:	Danger
Hazard Statements:	 H220 – Extremely flammable gas. H222 – Extremely Flammable Aerosol H225 – Highly flammable liquid and vapour H229 – Pressurized container: may burst if heated H302 – Harmful if swallowed. H304 – May be fatal if swallowed and enters airways H315 – Causes skin irritation H332 – Harmful if inhaled. H336 – May cause drowsiness or dizziness. H340 – May cause genetic defects H350 – May cause cancer H361 – Suspected of damaging fertility or the unborn child . H373 – May cause damage to nervous system through prolonged or repeated exposure(Inhalation) H400 – Very toxic to aquatic life. H410 – Very toxic to aquatic life with long lasting effects. H411 – Toxic to aquatic life with long lasting effects.
Precautionary Statements:	 P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P103 - Read label before use P210 - Keep away from heat/sparks/open flames/hot surfaces - no smoking P211 - Do not spray on an open flame or other ignition source P251 - Pressurized container: Do not pierce or burn, even after use P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P262 - Do not get in eyes, on skin, or on clothing P264 - Wash thoroughly after handling P280 - Wear protective gloves/eye protection/face protection P303+P361+P353 - If on skin or hair, remove/takeoff immediately all contaminated clothing. Rinse skin with water/shower. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F P501 - Dispose of contents/container in accordance with local/regional/national/international regulation



Symbols/Pictograms:

Safety Data Sheet (SDS)

Date Prepared/Revised: 12/4/18

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3. Composition / Information on Ingredients

Composition

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Chemical	Synonyms	CAS	EINECS	Weight	Hazard Category	H-Code
D 1 1 1	DVD	Number	Number	Percent		*****
Dimethyl	D.M.E.	115-10-6	204-065-8	15-40%	Flam. Gas 1	H220
Ether					Press. Gas	
Hexane	n-Hexane	110-54-3	203-777-6	10-30%	Flam. Liq. 2	H225
					Repr. 2	H361f
					Asp. Tox. 1	H304
					STOT RE 2 *	H373
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic Chronic 2	H411
Aliphatic	Petroleum	8052-41-	232-489-3	10-30%	Carc. 1B	H350
Hydrocarbon	Distillate	3			Muta. 1B	H340
		5			Asp. Tox. 1	H304
Cyclohexane	Hexanaphthene	110-82-7	203-806-2	1-5%	Flam. Liq. 2	H225
-	_				Asp. Tox. 1	H304
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic Acute 1	H400
					Aquatic Chronic 1	H410
Benzyl	Phenylcarbinol		202-	1-5%	Acute Tox. 4	H332
Alcohol		100-51-6	859-9			H302

Other Product Information

Chemical Identity: Mixture

4.) First Aid Measures

General Advice: Inhalation First Aid:	If symptoms persist, always call a doctor. Remove victim to fresh air and provide oxygen if breathing is difficult. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.
Skin Contact First Aid:	Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse.
Eye Contact First Aid:	If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention immediately.
Ingestion First Aid:	If swallowed, wash out mouth with water provided the person is conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Most Important	
Symptoms/Effects:	Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects.

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5. Fire Fighting Measures

Flammable Properties:	Aerosol
Auto Ignition Temperature:	Not Available
Suitable extinguishing media:	Carbon dioxide, dry chemical, water spray.
Unsuitable extinguishing media:	None known
Special hazards arising from the	
substance or mixture:	None known
Hazardous combustion products:	Carbon dioxide, Carbon monoxide
Fire & Explosion Hazards:	Closed Containers may rupture due to the buildup of pressure
	from extreme temperatures.
pressu NIOS	rater spray to cool containers exposed to heat or fire to prevent are build up. In the event of a fire, wear full protective clothing and H- approved self-contained breathing apparatus with full face piece and in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES:

- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

SPILL CLEAN-UP PROCEDURES:

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

7. Handling and Storage

Handling:

Flammable Aerosol, use in a well ventilated area.

Do not use near sources of ignition.

Do not to eat, drink and smoke while working with this material.

Wash hands after use.

Conditions for safe storage, including any incompatibilities:

Store out of direct sunlight.

Storage Temperature: 32° to 120° F (0° to 49° C). No known incompatibilities.



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Appropriate engineering controls:

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Keep away from sources of ignition.

Take precautionary measures against static discharge.

Personal Protection:

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

Skin protection

Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection:

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS Number	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)
Aliphatic Hydrocarbon	8052-41-3	100ppm	N/AV	(TWA) 500ppm	N/AV
Dimethyl Ether	115-10-6	N/AV	N/AV	N/AV	N/AV
Hexane	110-54-3	50ppm	N/AV	500ppm	N/AV
Cyclohexane	110-82-7	100ppm	N/AV	300ppm	N/AV
Benzyl Alcohol	100-51-6	N/AV	N/AV	N/AV	N/AV

*Values are based on the 2014 Guide to Occupational Exposure Values by ACGIH

9.	Information of	on Basic Ph	ysical and	Chemical	Properties
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Appearance: Amber, clear	Odor: Solvent odor
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: <0° F (-18° C)	Evaporation Rate: Faster than n-Butyl
	Acetate
Flammability Solid/Gas: Flammable gas	LEL: N/AV UEL: N/AV
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV

10. Stability & Reactivity



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Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions Chemical stability: Stable under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data:	(Hexane) LD50: 2870mg/kg (Rat - Oral) (Cyclohexane) LD50: >5g/kg (Rat-Oral) (DME) LC50: 1644,000 ppm/4 hr (Benyzl Alcohol) 1230 mg/kg (Rat-Oral)
Eye irritation data:	N/AV
Skin irritation/sensitization/absorption data:	N/AV
Reproductive toxicity data:	N/AV
Mutagenicity data:	Muta. 1B
Symptoms associated with physical contact:	N/AV
Acute/chronic effects from short/long term exposure:	Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.
Known reportable carcinogens via the following agencies:	
NTP:	N/AV
IARC:	N/AV
OSHA:	N/AV

* Petroleum distillates may contain chemical carcinogens in limited quantities (< 0.01%). These quantities are determined by the supplier/fraction/purity of the distillate during the manufacturing process. Chemicals that may be present within distillates are listed on California's prop 65 list such as ETHYLBENZENE, BENZENE, and TOLUENE.

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Ecotoxicity: **No Data Available** Persistence and degradability: **No Data Available** Bioaccumulative potential: **No Data Available** Mobility in soil: **No Data Available** Results of PBT and vPvB assessment: **No Data Available** Other adverse effects: **No Data Available**

13. Disposal Considerations

Waste Disposal: Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

Product / Packaging disposal: Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

14. Transportation Information

US DOT

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference 49
			Applicable	Applicable	CFR 172.101

IMDG

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference
			Applicable	Applicable	IMDG code
					part 3

IATA:

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols, Flammable	2.1	Not	Not	Reference
			Applicable	Applicable	IATA
					Dangerous
					Goods
					Regulation

15. Regulatory Information

Workplace classification:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

SARA Title 3:

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard.



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Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

TSCA status: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR. **PROP 65 (CA):** WARNING: Reproductive Harm – www.P65Warnings.ca.gov

16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

Date of Preparation/Revision: 12/4/18 Supersedes: (9/19/2017)

To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.

Safety Data Sheet (SDS)

Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

1.) Identification of the Mixture and of the Company

Product identifier: EPS Foam / Concrete Adhesive

Product name: 8178 EPS Foam / Concrete Adhesive

AERVOE

Relevant identified uses of the substance: :8178 EPS Foam / Concrete Adhesive can be used throughtout general industry and construction for bonding EPS to concrete and other EPS surfaces. Uses advised against: Poorly ventilated areas

CAS No:	Not Applicable (mixture)
EC No:	Not Applicable (mixture)
Index No:	Not Applicable (mixture)
Manufacturer/Supplier:	Aervoe Industries Incorporated
Street address/P.O. Box:	1100 Mark Circle
Country ID/Postcode/Place	Gardnerville, Nevada 89410
Telephone number:	1-775-782-0100
e-mail:	mailbox@aervoe.com
National contact:	Aervoe industries Incorporated
For Product Information:	1-800-227-0196
Emergency telephone number:	1-800-424-9300 (CHEMTREC – 24 hrs)

2. Hazards identification

Classifications

Physical Hazards:	Aerosol - Category 1 Flam. Gas 1 Press. Gas Flam. Liq. 2
Health Hazards:	
	Repr. 2 Asp. Tox. 1 STOT RE 2 Skin Irrit. 2 STOT SE 3 Eye Irrit. 2 Carc. 1B Muta. 1B Acute Tox. 4
Environmental Hazards:	Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2

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Safety Data Sheet (SDS)

Date Prepared/Revised: 12/4/18

Version no.: 04 Supersedes: 9/19/2017

Signal Word:	Danger
Hazard Statements:	 H220 – Extremely flammable gas. H222 – Extremely Flammable Aerosol H225 – Highly flammable liquid and vapour H229 – Pressurized container: may burst if heated H302 – Harmful if swallowed. H304 – May be fatal if swallowed and enters airways H315 – Causes skin irritation H332 – Harmful if inhaled. H336 – May cause drowsiness or dizziness. H340 – May cause genetic defects H350 – May cause cancer H361 – Suspected of damaging fertility or the unborn child . H373 – May cause damage to nervous system through prolonged or repeated exposure(Inhalation) H400 – Very toxic to aquatic life. H410 – Very toxic to aquatic life with long lasting effects. H411 – Toxic to aquatic life with long lasting effects.
Precautionary Statements:	 P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P103 - Read label before use P210 - Keep away from heat/sparks/open flames/hot surfaces - no smoking P211 - Do not spray on an open flame or other ignition source P251 - Pressurized container: Do not pierce or burn, even after use P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P262 - Do not get in eyes, on skin, or on clothing P264 - Wash thoroughly after handling P280 - Wear protective gloves/eye protection/face protection P303+P361+P353 - If on skin or hair, remove/takeoff immediately all contaminated clothing. Rinse skin with water/shower. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F P501 - Dispose of contents/container in accordance with local/regional/national/international regulation



Symbols/Pictograms:

Date Prepared/Revised: 12/4/18

Version no.: 04 Supersedes: 9/19/2017

3. Composition / Information on Ingredients

Composition

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Chemical	Synonyms	CAS	EINECS	Weight	Hazard Category	H-Code
		Number	Number	Percent		
Dimethyl	D.M.E.	115-10-6	204-065-8	15-40%	Flam. Gas 1	H220
Ether					Press. Gas	
Hexane	n-Hexane	110-54-3	203-777-6	10-30%	Flam. Liq. 2	H225
					Repr. 2	H361f
					Asp. Tox. 1	H304
					STOT RE 2 *	H373
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic Chronic 2	H411
Aliphatic	Petroleum	8052-41-	232-489-3	10-30%	Carc. 1B	H350
Hydrocarbon	Distillate	3			Muta. 1B	H340
		J			Asp. Tox. 1	H304
Cyclohexane	Hexanaphthene	110-82-7	203-806-2	1-5%	Flam. Liq. 2	H225
					Asp. Tox. 1	H304
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic Acute 1	H400
					Aquatic Chronic 1	H410
Benzyl	Phenylcarbinol		202-	1-5%	Acute Tox. 4	H332
Alcohol		100-51-6	859-9			H302

Other Product Information

Chemical Identity: Mixture

4.) First Aid Measures

General Advice: Inhalation First Aid:	If symptoms persist, always call a doctor. Remove victim to fresh air and provide oxygen if breathing is difficult. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.
Skin Contact First Aid:	Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse.
Eye Contact First Aid:	If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention immediately.
Ingestion First Aid:	If swallowed, wash out mouth with water provided the person is conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Most Important	
Symptoms/Effects:	Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects.

Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

5. Fire Fighting Measures

Flammable Properties: Auto Ignition Temperature:	Aerosol Not Available		
6 1			
Suitable extinguishing media:	Carbon dioxide, dry chemical, water spray.		
Unsuitable extinguishing media:	None known		
Special hazards arising from the			
substance or mixture:	None known		
Hazardous combustion products:	Carbon dioxide, Carbon monoxide		
Fire & Explosion Hazards:	Closed Containers may rupture due to the buildup of pressure		
	from extreme temperatures.		
pressu NIOS	rater spray to cool containers exposed to heat or fire to prevent ire build up. In the event of a fire, wear full protective clothing and H- approved self-contained breathing apparatus with full face piece ed in the pressure demand or other positive pressure mode.		

6. Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES:

- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

SPILL CLEAN-UP PROCEDURES:

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

7. Handling and Storage

Handling:

Flammable Aerosol, use in a well ventilated area.

Do not use near sources of ignition.

Do not to eat, drink and smoke while working with this material.

Wash hands after use.

Conditions for safe storage, including any incompatibilities:

Store out of direct sunlight.

Storage Temperature: 32° to 120° F (0° to 49° C). No known incompatibilities.



Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Appropriate engineering controls:

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Keep away from sources of ignition.

Take precautionary measures against static discharge.

Personal Protection:

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

Skin protection

Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection:

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS Number	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)
Aliphatic Hydrocarbon	8052-41-3	100ppm	N/AV	(TWA) 500ppm	N/AV
Dimethyl Ether	115-10-6	N/AV	N/AV	N/AV	N/AV
Hexane	110-54-3	50ppm	N/AV	500ppm	N/AV
Cyclohexane	110-82-7	100ppm	N/AV	300ppm	N/AV
Benzyl Alcohol	100-51-6	N/AV	N/AV	N/AV	N/AV

*Values are based on the 2014 Guide to Occupational Exposure Values by ACGIH

9.	Information of	on Basic Ph	ysical and	Chemical	Properties
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Appearance: Amber, clear	Odor: Solvent odor
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: <0° F (-18° C)	Evaporation Rate: Faster than n-Butyl
	Acetate
Flammability Solid/Gas: Flammable gas	LEL: N/AV UEL: N/AV
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV



Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions Chemical stability: Stable under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data:	(Hexane) LD50: 2870mg/kg (Rat - Oral) (Cyclohexane) LD50: >5g/kg (Rat-Oral) (DME) LC50: 1644,000 ppm/4 hr (Berugh Alashal) 1220 mg/kg (Bat Oral)
Eye irritation data:	(Benyzl Alcohol) 1230 mg/kg (Rat-Oral) N/AV
Skin irritation/sensitization/absorption data:	N/AV
Reproductive toxicity data:	N/AV
Mutagenicity data:	Muta. 1B
Symptoms associated with physical contact:	N/AV
Acute/chronic effects from short/long term exposure:	Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.
Known reportable carcinogens via the following agencies:	
NTP:	N/AV
IARC:	N/AV
OSHA:	N/AV

* Petroleum distillates may contain chemical carcinogens in limited quantities (< 0.01%). These quantities are determined by the supplier/fraction/purity of the distillate during the manufacturing process. Chemicals that may be present within distillates are listed on California's prop 65 list such as ETHYLBENZENE, BENZENE, and TOLUENE.

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Safety Data Sheet (SDS)

Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Ecotoxicity: **No Data Available** Persistence and degradability: **No Data Available** Bioaccumulative potential: **No Data Available** Mobility in soil: **No Data Available** Results of PBT and vPvB assessment: **No Data Available** Other adverse effects: **No Data Available**

13. Disposal Considerations

Waste Disposal: Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

Product / Packaging disposal: Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

14. Transportation Information

US DOT

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference 49
			Applicable	Applicable	CFR 172.101

IMDG

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference
			Applicable	Applicable	IMDG code
					part 3

IATA:

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols, Flammable	2.1	Not	Not	Reference
			Applicable	Applicable	IATA
					Dangerous
					Goods
					Regulation

15. Regulatory Information

Workplace classification:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

SARA Title 3:

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard.



Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

TSCA status: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR. **PROP 65 (CA):** WARNING: Reproductive Harm – www.P65Warnings.ca.gov

16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

Date of Preparation/Revision: 12/4/18 Supersedes: (9/19/2017)

To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.

Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

1.) Identification of the Mixture and of the Company

Product identifier: EPS Foam / Concrete Adhesive

Product name: 8178 EPS Foam / Concrete Adhesive

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Relevant identified uses of the substance: :8178 EPS Foam / Concrete Adhesive can be used throughtout general industry and construction for bonding EPS to concrete and other EPS surfaces. Uses advised against: Poorly ventilated areas

CAS No:	Not Applicable (mixture)
EC No:	Not Applicable (mixture)
Index No:	Not Applicable (mixture)
Manufacturer/Supplier:	Aervoe Industries Incorporated
Street address/P.O. Box:	1100 Mark Circle
Country ID/Postcode/Place	Gardnerville, Nevada 89410
Telephone number:	1-775-782-0100
e-mail:	mailbox@aervoe.com
National contact:	Aervoe industries Incorporated
For Product Information:	1-800-227-0196
Emergency telephone number:	1-800-424-9300 (CHEMTREC – 24 hrs)

2. Hazards identification

Classifications

Physical Hazards:	Aerosol - Category 1 Flam. Gas 1 Press. Gas Flam. Liq. 2
Health Hazards:	
	Repr. 2 Asp. Tox. 1 STOT RE 2 Skin Irrit. 2 STOT SE 3 Eye Irrit. 2 Carc. 1B Muta. 1B Acute Tox. 4
Environmental Hazards:	Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2

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Safety Data Sheet (SDS)

Date Prepared/Revised: 12/4/18

Version no.: 04 Supersedes: 9/19/2017

Signal Word:	Danger
Hazard Statements:	 H220 – Extremely flammable gas. H222 – Extremely Flammable Aerosol H225 – Highly flammable liquid and vapour H229 – Pressurized container: may burst if heated H302 – Harmful if swallowed. H304 – May be fatal if swallowed and enters airways H315 – Causes skin irritation H332 – Harmful if inhaled. H336 – May cause drowsiness or dizziness. H340 – May cause genetic defects H350 – May cause cancer H361 – Suspected of damaging fertility or the unborn child . H373 – May cause damage to nervous system through prolonged or repeated exposure(Inhalation) H400 – Very toxic to aquatic life. H410 – Very toxic to aquatic life with long lasting effects. H411 – Toxic to aquatic life with long lasting effects.
Precautionary Statements:	 P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P103 - Read label before use P210 - Keep away from heat/sparks/open flames/hot surfaces - no smoking P211 - Do not spray on an open flame or other ignition source P251 - Pressurized container: Do not pierce or burn, even after use P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P262 - Do not get in eyes, on skin, or on clothing P264 - Wash thoroughly after handling P280 - Wear protective gloves/eye protection/face protection P303+P361+P353 - If on skin or hair, remove/takeoff immediately all contaminated clothing. Rinse skin with water/shower. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F P501 - Dispose of contents/container in accordance with local/regional/national/international regulation



Symbols/Pictograms:

Date Prepared/Revised: 12/4/18

Version no.: 04 Supersedes: 9/19/2017

3. Composition / Information on Ingredients

Composition

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Chemical	Synonyms	CAS	EINECS	Weight	Hazard Category	H-Code
		Number	Number	Percent		
Dimethyl	D.M.E.	115-10-6	204-065-8	15-40%	Flam. Gas 1	H220
Ether					Press. Gas	
Hexane	n-Hexane	110-54-3	203-777-6	10-30%	Flam. Liq. 2	H225
					Repr. 2	H361f
					Asp. Tox. 1	H304
					STOT RE 2 *	H373
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic Chronic 2	H411
Aliphatic	Petroleum	8052-41-	232-489-3	10-30%	Carc. 1B	H350
Hydrocarbon	Distillate	3			Muta. 1B	H340
		J			Asp. Tox. 1	H304
Cyclohexane	Hexanaphthene	110-82-7	203-806-2	1-5%	Flam. Liq. 2	H225
					Asp. Tox. 1	H304
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic Acute 1	H400
					Aquatic Chronic 1	H410
Benzyl	Phenylcarbinol		202-	1-5%	Acute Tox. 4	H332
Alcohol		100-51-6	859-9			H302

Other Product Information

Chemical Identity: Mixture

4.) First Aid Measures

General Advice: Inhalation First Aid:	If symptoms persist, always call a doctor. Remove victim to fresh air and provide oxygen if breathing is difficult. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.
Skin Contact First Aid:	Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse.
Eye Contact First Aid:	If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention immediately.
Ingestion First Aid:	If swallowed, wash out mouth with water provided the person is conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Most Important	
Symptoms/Effects:	Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects.

Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

5. Fire Fighting Measures

Flammable Properties: Auto Ignition Temperature:	Aerosol Not Available
6 1	
Suitable extinguishing media:	Carbon dioxide, dry chemical, water spray.
Unsuitable extinguishing media:	None known
Special hazards arising from the	
substance or mixture:	None known
Hazardous combustion products:	Carbon dioxide, Carbon monoxide
Fire & Explosion Hazards:	Closed Containers may rupture due to the buildup of pressure
	from extreme temperatures.
pressu NIOS	rater spray to cool containers exposed to heat or fire to prevent are build up. In the event of a fire, wear full protective clothing and H- approved self-contained breathing apparatus with full face piece and in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES:

- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

SPILL CLEAN-UP PROCEDURES:

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

7. Handling and Storage

Handling:

Flammable Aerosol, use in a well ventilated area.

Do not use near sources of ignition.

Do not to eat, drink and smoke while working with this material.

Wash hands after use.

Conditions for safe storage, including any incompatibilities:

Store out of direct sunlight.

Storage Temperature: 32° to 120° F (0° to 49° C). No known incompatibilities.



Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Appropriate engineering controls:

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Keep away from sources of ignition.

Take precautionary measures against static discharge.

Personal Protection:

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

Skin protection

Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection:

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS Number	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)
Aliphatic Hydrocarbon	8052-41-3	100ppm	N/AV	500ppm	N/AV
Dimethyl Ether	115-10-6	N/AV	N/AV	N/AV	N/AV
Hexane	110-54-3	50ppm	N/AV	500ppm	N/AV
Cyclohexane	110-82-7	100ppm	N/AV	300ppm	N/AV
Benzyl Alcohol	100-51-6	N/AV	N/AV	N/AV	N/AV

*Values are based on the 2014 Guide to Occupational Exposure Values by ACGIH

9.	Information on	Basic Physic	al and Chemica	I Properties
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Appearance: Amber, clear	Odor: Solvent odor
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: <0° F (-18° C)	Evaporation Rate: Faster than n-Butyl
	Acetate
Flammability Solid/Gas: Flammable gas	LEL: N/AV UEL: N/AV
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV



Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions Chemical stability: Stable under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data:	(Hexane) LD50: 2870mg/kg (Rat - Oral) (Cyclohexane) LD50: >5g/kg (Rat-Oral) (DME) LC50: 1644,000 ppm/4 hr (Benyzl Alcohol) 1230 mg/kg (Rat-Oral)
Eye irritation data:	N/AV
Skin irritation/sensitization/absorption data:	N/AV
Reproductive toxicity data:	N/AV
Mutagenicity data:	Muta. 1B
Symptoms associated with physical contact:	N/AV
Acute/chronic effects from short/long term exposure:	Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.
Known reportable carcinogens via the following agencies:	
NTP:	N/AV
IARC:	N/AV
OSHA:	N/AV

* Petroleum distillates may contain chemical carcinogens in limited quantities (< 0.01%). These quantities are determined by the supplier/fraction/purity of the distillate during the manufacturing process. Chemicals that may be present within distillates are listed on California's prop 65 list such as ETHYLBENZENE, BENZENE, and TOLUENE.

AERVOE

Safety Data Sheet (SDS)

Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Ecotoxicity: **No Data Available** Persistence and degradability: **No Data Available** Bioaccumulative potential: **No Data Available** Mobility in soil: **No Data Available** Results of PBT and vPvB assessment: **No Data Available** Other adverse effects: **No Data Available**

13. Disposal Considerations

Waste Disposal: Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

Product / Packaging disposal: Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

14. Transportation Information

US DOT

UN		Proper Shipping Name	Hazard	Packing	Marine	Special
Nun	nber		Class	Group	Pollutant	Provisions
UN1	950	Aerosols	2.1	Not	Not	Reference 49
				Applicable	Applicable	CFR 172.101

IMDG

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference
			Applicable	Applicable	IMDG code
					part 3

IATA:

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols, Flammable	2.1	Not	Not	Reference
			Applicable	Applicable	IATA
					Dangerous
					Goods
					Regulation

15. Regulatory Information

Workplace classification:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

SARA Title 3:

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard.



Date Prepared/Revised: 12/4/18 Version no.: 04 Supersedes: 9/19/2017

Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

TSCA status: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR. **PROP 65 (CA):** WARNING: Reproductive Harm – www.P65Warnings.ca.gov

16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

Date of Preparation/Revision: 12/4/18 Supersedes: (9/19/2017)

To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.

SECTION I. Chemical Product and Company Identification

Product Name:	ABC Dry Chemical Fire Extinguishant
	(Fire Extinguishing Agent, Non-pressurized and Pressurized)
Synonym:	Multi-Purpose Dry Chemical
Manufacturer:	Buckeye Fire Equipment Company
	PO Box 428
	Kings Mountain, NC 28086
Telephone:	704.739.7415
Web Address:	www.buckeyefire.com
Email Address:	bfec@buckeyef.com
Recommended Use:	Fire suppression, not for human or animal drug use.
Emergency:	CHEMTREC 1.800.424.9300
Revision Date:	08/05//2019

SECTION II. Hazard Identification

Note: This SDS covers both pressurized and non-pressurized containers of the product.

GHS – Classification (Pressurized):

Hazard Classification: Gas Under Pressure-Compressed Gas

GHS Label Elements:

Hazard Symbols: Signal Word: WARNING

Hazard Statements: Contents Under Pressure: may explode if heated *Precautionary Statements:* P251 Pressurized container; do not pierce or burn, even after use.

GHS – Classification (Non-pressurized):

Eye Irritation:	Category 2B
Skin Irritation:	Category 5
Acute Toxicity-Inhalation:	Category 5

GHS Label Elements:

Hazard Symbols: Signal Word: WARNING

Hazard Statements:

- H313 May be harmful in contact with skin.
- H320 Causes eye irritation
- H333 May be harmful if inhaled.

Precautionary Statements:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P234 Keep in original container.
- P251 Pressurized container; do not pierce or burn, even after use
- P261 Avoid breathing dust
- P264 Wash hands and face thoroughly after handling
- P270 Do not eat, drink, or smoke when using this product
- P281 Use personal protective equipment as required

P285	In case of inadequate ventilation, wear respiratory protection
P301+322+331	If swallowed, drink 2-3 glasses of water and do not induce vomiting
302+352	If on skin, wash with soap and water
304+313+341	If inhaled, and if distress occurs, remove victim to fresh air and keep at rest in a position comfortable
	for breathing. Seek medical advice/attention.
305+351+338	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and east
	to do and continue to rinse.
337+313	If eye irritation persists, get medical advice/attention.
P401+402+403	Store in original container or extinguisher in a dry, well ventilated place.

SECTION III. Composition/Information on Ingredients

This product is a mixture.

Chemical Name	Weight %*	<u>CAS #</u>
Monoammonium phosphate	85	7722-76-1
Barium Sulfate	8	7727-43-7
Mica	< 3	12001-26-2
Amorphous Silica (non-crystalline)	< 3	112926-00-8 (7631-86-9)
Stannous octoate	<.3	301-10-0
Silicone	<.1	63148-57-2
Pigment	<.1	6358-31-2

Note: Pressurized product uses nitrogen as the expellant

* % is rounded to the nearest appropriate number. Values are not to be considered product specifications

SECTION IV. First Aid Measures

Eye Exposure- Flush eyes with water until pain-free. If irritation develops or persists, seek medical attention.

Skin Exposure- Wash with plenty of soap and water. If irritation develops or persists, seek medical attention.

Inhalation- Move victim to fresh air. If irritation develops or persists, seek medical attention.

Ingestion- If victim is conscious and alert, give 2-3 glasses of water to drink. Do not induce vomiting. If vomiting occurs and the victim is conscious, give additional water to further dilute the chemical. Prevent aspiration of swallowed product by laying victim on side with head lower than their waist. Seek medical attention. Do not leave victim unattended.

7727-37-9

Medical Conditions Possibly Aggravated by Exposure- Inhalation of the product may aggravate existing chronic respiratory conditions such as asthma, emphysema, or bronchitis. Contact with the skin may aggravate an existing skin disease. Chronic overexposure may cause pneumoconiosis ("Dusty Lung" disease).

SECTION V. Firefighting Measures

Extinguishing Media: N/A. This product is an extinguishing agent. It is nonflammable and noncombustible. *Special Firefighting Procedures:* N/A *Unusual Fire and Explosion Hazards:* This product may decompose in fire and release oxides of carbon, potassium, and nitrogen (Refer to Section X). *Sensitivity to Mechanical Impact or Static Discharge:* None

SECTION VI. Accidental Release Measures

In case of accidental release, use the appropriate respiratory protection. Clean up the product using a vacuum or wet sweep and shovel to minimize the generation of dust. Bag or drum the product for disposal. If the product is used and/or contaminated, use personal protective equipment and containment means that are appropriate for the composition of the mixture. Product should be prevented from entering waterways.

SECTION VII. Handling and Storage

Avoid eye, respiratory, and skin exposure. Use the appropriate personal protective equipment when handling. Wash thoroughly after handling (Refer to Section VIII). Product should be stored in its original container or extinguisher. When the product is contained under pressure (e.g., an extinguisher), inspect the container for rust or damage that may compromise the container integrity. Do not store the product in high humidity and do not mix with other extinguishing agents, particularly potassium bicarbonate-based agents.

SECTION VIII. Exposure Controls and Personal Protection

Exposure Guidelines:

1	OSHA PEL	ACGIH TLV
Monoammonium phosphate	Particulates Not Otherwise Classified	Particulates Not Otherwise Classified
	Total Dust- 15 mg/m ³	Total Dust- 10 mg/m ³
	Respirable Fraction- 5 mg/m ³	Respirable Fraction- 3 mg/m ³
Barium sulfate	Particulates Not Otherwise Classified	Particulates Not Otherwise Classified
	Total Dust- 15 mg/m ³	Total Dust- 10 mg/m ³
	Respirable Fraction- 5 mg/m ³	Respirable Fraction- 3 mg/m ³
Mica	6 mg/m ³	3 mg/m ³
Amorphous Silica	6 mg/m ³	10 mg/m ³
Stannous octoate	.1 mg/m ³	.1 mg/m ³
Silicone	Not Regulated	Not Regulated
Pigment	Not Regulated	Not Regulated

During the use of this product on fires, exhaust gases and products of incomplete combustion are the main respiratory hazards. In the manufacture of this product, employers and employees must use their collective judgment in determining the on-the-job settings where the use of a dust mask or respirator is prudent. The need for respiratory protection is not likely for short-term use in well-ventilated areas.

Respiratory Protection: Use an N-95 dust mask for limited exposures and use air-purifying respirators with high efficiency particulate air filters (HEPA filters) for prolonged exposures.

Eye Protection: Wear chemical goggles or full-face air-purifying respirator.

Skin Protection: Use nitrile, latex, or similar gloves and coveralls. Good personal hygiene practices are essential. After handling the product, avoid food, tobacco products, or other means of transferring the product from hand to mouth until after thoroughly washing.

SECTION IX. Physical and Chemical Properties

Chemical Agent

 Appearance and Odor: Light yellow fine powder that is odorless.

 Apparent Density: 0.82

 Solubility: The product is coated with water repellant silicone. Not immediately soluble in water.

 pH: Approximately 4 -5

 Flash Point: N/A

 Flammability: N/A

 Vapor Pressure: N/A

 Boiling Point: N/A

 Explosive or Oxidizing Properties: None

Expellant- Nitrogen

Appearance and Odor: Colorless and odorless. Specific Gravity: 0.075 lb./ft³@ 70°F as vapor Solubility: N/A pH: N/A Flash Point: Nonflammable Flammability: Nonflammable Vapor Pressure: N/A Boiling Point: -321°F Explosive or Oxidizing Properties: None

Buckeye Fire Equipment Company Page 3 of 5

SECTION X. Stability and Reactivity

Reactivity: Pressurized containers may rupture or explode if exposed to high heat
Stability: Stable
Incompatibles: Magnesium, strong oxidizers such as calcium hypochlorite (pool chlorine), strong alkalis, and isocyanic acids.
Decomposition Products: This product may decompose in fire and release carbon monoxide, carbon dioxide, and sulfur dioxide.
Oxides of phosphorous and ammonia have been reported.
Hazardous Polymerization: Will not occur
Hazardous Reactions: None

SECTION XI. Toxicological Information

Acute Toxicity: Monoammonium phosphate LD50 (rat): > 1000mg/kg body weight. Target organs in humans: respiratory system, eyes, and skin. This product is an irritant to epithelial tissue and may aggravate dermatitis. No indication that the product causes sensitization.

Chronic Toxicity: Pneumoconiosis, or "Dusty Lung" disease, may result from chronic exposure to any dust.

Reproductive Toxicity: This product is not known to have any reproductive effects.

Nitrogen: Simple asphyxiant. Exposure at high concentrations can cause suffocation by reducing the available oxygen.

SECTION XII. Ecological Information

Ecotoxicity: Negative effects are unknown. Provides nutrient nitrogen and phosphorous to plant life. *Degradability:* Degrades rapidly in wet or humid environment. *Bioaccumulation:* Unknown extent. *Mobility in Soil:* Water-soluble. May leech into groundwater.

SECTION XIII. Disposal Consideration

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal regulations. Be aware that product used on a fire may be altered or contaminated and thereby require different disposal considerations.

SECTION XIV. Transportation Information

This product is not defined as a hazardous material under U.S. Department of Transportation 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

Please Note: Although this material is not considered hazardous, when contained in a stored pressure fire extinguisher pressurized with a nonflammable gas, the extinguisher itself is considered a hazardous material by the U.S. Department of Transportation (USDOT) and Transport Canada (TC). The proper shipping name shall be Fire Extinguisher and the UN Identification Number is UN 1044. The USDOT hazard class is Limited Quantity when pressurized to less than 241 psig and when shipped via highway or rail. For shipment by Air or Water consult the current IATA or IMDG Regulations respectively.

SECTION XV. Regulatory Information

International Inventory Status: All ingredients are on the following inventories

Country	<u>Agency</u>	<u>Country</u>	<u>Agency</u>
U.S.A.	TSCA	Australia	AICS
Canada	DSL	Japan	MITI
Europe	EINECS/ELINCS	South Korea	KECL

European Risk and Safety P EU Classification-	hrases:	Harmful
R Phrases-	22 36/37/38	Harmful if swallowed Irritating to eyes, respiratory system, and skin.
S Phrases-	26 36	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice Wear suitable protective clothing

U.S. Federal Regulatory Information:

Non-pressurized; None of the chemicals in this product are under SARA reporting requirements or have SARA Threshold Planning Quantities or CERCLA Reportable Quantities or are regulated under TSCA 8(d). Pressurized: SARA Title III Section 311/312 Categorization is Pressure Hazard

State Regulatory Information:

8				
Chemicals in this product are covered under the specific State regulations noted:				
Alaska	Designated Toxic and Hazardous Substances- None			
California	Permissible Exposure Limits for Chemical	Contaminants- None		
Florida	Substance list- Mica dust	Pennsylvania	Hazardous Substance List- None	
Illinois	Toxic Substance List- No	Rhode Island	Hazardous Substance List- Mica dust	
Kansas	Section 302/303 List- None	Texas	Hazardous Substance List- No	
Massachusetts	Substance list- Mica dust West Virginia Hazardous Substance List- None			
Minnesota	ta List of Hazardous Substances- None Wisconsin Toxic and Hazardous Substances- None			
Missouri	Employer Information/Toxic Substance Lis	st- None		
New Jersey	Right to Know Hazardous Substance List-	None		
North Dakota List of Hazardous Chemicals, Reportable Quantities- None				

California Proposition 65- No component is listed on the California Proposition 65 List

SECTION XVI. Other Information

This Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

HMIS RATINGS:

Health1Flammability0Reactivity0Personal Protective Equipment: use N-95 dust mask (See Section 8)

WHMIS (Canadian Workplace Hazardous Materials Identification)

D2B- May irritate eyes, mucous membranes, and/or skin

Revised on 7/24/19: Page 1, Section II GHS-classification (Non-pressurized) changed (Class) to (Category) Skin Irritation: Class 3 to Category 5, and Inhalations from Class 5 to Category 5. Revised 8/5/19 (Section II) to add "Acute Toxicity" to Inhalation: Category 5

The information contained herein is given in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made.



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Common Name:ABC DRY CHEMICAL FIRE EXTINGUISHANTManufacturer:BUCKEYE FIRE EQUIPMENTSDS Revision Date:4/1/2015SDS Format:GHS-US

Grainger Item Number(s): 2LBP1, 31CA37, 35WT05, 35WT06, 35WT07, 35WT08, 35WT09, 35WT10, 35WT11, 35WT41, 35WT42, 35WT43, 35WT44, 3GRW5, 3GRW6, 3GRW7, 3GRW8, 3GRY3, 3GRY4, 3GRY5, 3GRY6, 3GRY7, 3GRY8, 3GRZ4, 44YZ28, 44YZ29, 44YZ30, 44YZ31, 44YZ33, 44YZ35

Manufacturer Model Number(s):

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SAFETY DATA SHEET

ABC DRY CHEMICAL

SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ABC DRY CHEMICAL FIRE EXTINGUISHANT

SYNONYM: MULTI-PURPOSE DRY CHEMICAL

MANUFACTURER: BUCKEYE FIRE EQUIPMENT COMPANY 110 KINGS ROAD KINGS MOUNTAIN, NC 28086

TELEPHONE: 704.739.7415

WEB ADDRESS: WWW.BUCKEYEFIRE.COM

EMAIL ADDRESS: BFEC@BUCKEYEF.COM

SDS

RECOMMENDED USE: FIRE SUPPRESSION, NOT FOR HUMAN OR ANIMAL DRUG USE.

EMERGENCY: CHEMTREC: 1.800.424.9300

REVISION DATE: 04/2015

SECTION II. HAZARD IDENTIFICATION

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GHS - CLASSIFICATION:

EYE IRRITATION: CLASS 2B SKIN IRRITATION: CLASS 3 INHALATION: CLASS 5

GHS LABEL ELEMENTS:

HAZARD SYMBOLS: EXCLAMATION MARK

SIGNAL WORD: WARNING

HAZARD STATEMENTS: H313: MAY BE HARMFUL IN CONTACT WITH SKIN. H320: CAUSES EYE IRRITATION H333: MAY BE HARMFUL IF INHALED.

PRECAUTIONARY STATEMENTS:

P101: IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND.

P102: KEEP OUT OF REACH OF CHILDREN.

P234: KEEP IN ORIGINAL CONTAINER.

P251: PRESSURIZED CONTAINER; DO NOT PIERCE OR BURN, EVEN AFTER USE

P261: AVOID BREATHING DUST

P264: WASH HANDS AND FACE THOROUGHLY AFTER HANDLING

P270: DO NOT EAT, DRINK, OR SMOKE WHEN USING THIS PRODUCT

P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED

P285: IN CASE OF INADEQUATE VENTILATION, WEAR RESPIRATORY PROTECTION

P301+322+331: IF SWALLOWED, DRINK 2-3 GLASSES OF WATER AND DO NOT INDUCE VOMITING

302+352: IF ON SKIN, WASH WITH SOAP AND WATER

304+313+341: IF INHALED, AND IF DISTRESS OCCURS, REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. SEEK MEDICAL ADVICE/ATTENTION.

305+351+338: IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EAST TO DO, AND CONTINUE TO RINSE.

337+313: IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE/ATTENTION.

P401+402+403: STORE IN ORIGINAL CONTAINER OR EXTINGUISHER IN A DRY, WELL VENTILATED PLACE.

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

THIS PRODUCT IS A MIXTURE.

CHEMICAL NAME	WEIGHT %*	CAS #
MONOAMMONIUM PHOSPHATE	85	7722-76-1
BARIUM SULFATE	10	7727-43-7
MICA	<3	12001-26-2
SILICA	<2	7631-86-9
STANNOUS OCTOATE	<.3	301-10-0
SILICONE	<.1	63148-57-2
PIGMENT	<.1	6358-31-2

 \star % IS ROUNDED TO THE NEAREST APPROPRIATE NUMBER. VALUES ARE NOT TO BE CONSIDERED PRODUCT SPECIFICATIONS

SECTION IV. FIRST AID MEASURES

EYE EXPOSURE: FLUSH EYES WITH WATER UNTIL PAIN-FREE. IF IRRITATION DEVELOPS OR PERSISTS, SEEK MEDICAL ATTENTION.

SKIN EXPOSURE: WASH WITH PLENTY OF SOAP AND WATER. IF IRRITATION DEVELOPS OR PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION: MOVE VICTIM TO FRESH AIR. IF IRRITATION DEVELOPS OR PERSISTS, SEEK MEDICAL ATTENTION.

INGESTION: IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-3 GLASSES OF WATER TO DRINK. DO NOT INDUCE VOMITING. IF VOMITING OCCURS AND THE VICTIM IS CONSCIOUS, GIVE ADDITIONAL WATER TO FURTHER DILUTE THE CHEMICAL. PREVENT ASPIRATION OF SWALLOWED PRODUCT BY LAYING VICTIM ON SIDE WITH HEAD LOWER THAN THEIR WAIST. SEEK MEDICAL ATTENTION. DO NOT LEAVE VICTIM UNATTENDED.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: INHALATION OF THE PRODUCT MAY AGGRAVATE EXISTING CHRONIC RESPIRATORY CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, OR BRONCHITIS. CONTACT WITH THE SKIN MAY AGGRAVATE AN EXISTING SKIN DISEASE. CHRONIC OVEREXPOSURE MAY CAUSE PNEUMOCONIOSIS ("DUSTY LUNG" DISEASE).

SECTION V. FIREFIGHTING MEASURES

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EXTINGUISHING MEDIA: N/A. THIS PRODUCT IS AN EXTINGUISHING AGENT. IT IS NONFLAMMABLE AND NONCOMBUSTIBLE.

SPECIAL FIREFIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: THIS PRODUCT MAY DECOMPOSE IN FIRE AND RELEASE OXIDES OF CARBON, POTASSIUM, AND NITROGEN (REFER TO SECTION X).

SENSITIVITY TO MECHANICAL IMPACT OR STATIC DISCHARGE: NONE

SECTION VI. ACCIDENTAL RELEASE MEASURES

IN CASE OF ACCIDENTAL RELEASE, USE THE APPROPRIATE RESPIRATORY PROTECTION. CLEAN UP THE PRODUCT USING A VACUUM OR WET SWEEP AND SHOVEL TO MINIMIZE THE GENERATION OF DUST. BAG OR DRUM THE PRODUCT FOR DISPOSAL. IF THE PRODUCT IS USED AND/OR CONTAMINATED, USE PERSONAL PROTECTIVE EQUIPMENT AND CONTAINMENT MEANS THAT ARE APPROPRIATE FOR THE COMPOSITION OF THE MIXTURE. PRODUCT SHOULD BE PREVENTED FROM ENTERING WATERWAYS.

SECTION VII. HANDLING AND STORAGE

AVOID EYE, RESPIRATORY, AND SKIN EXPOSURE. USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING. WASH THOROUGHLY AFTER HANDLING (REFER TO SECTION VIII). PRODUCT SHOULD BE STORED IN ITS ORIGINAL CONTAINER OR EXTINGUISHER. WHEN THE PRODUCT IS CONTAINED UNDER PRESSURE (E.G., AN EXTINGUISHER), INSPECT THE CONTAINER FOR RUST OR DAMAGE THAT MAY COMPROMISE THE CONTAINER INTEGRITY. DO NOT STORE THE PRODUCT IN HIGH HUMIDITY AND DO NOT MIX WITH OTHER EXTINGUISHING AGENTS, PARTICULARLY POTASSIUM BICARBONATE BASED AGENTS.

SECTION VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE GUIDELINES:

	OSHA PEL	ACGIH TLV
MONOAMONIUM PHOSPHATE	PARTICULATES NOT OTHERWISE CLASSIFIED	PARTICULATES NOT OTHERWISE CLASSIFIED
	TOTAL DUST: 15 MG/M3	TOTAL DUST: 10 MG/M3
	RESPIRABLE FRACTION: 5 MG/M3	RESPIRABLE FRACTION: 3 MG/M3
BARIUM SULFATE	PARTICULATES NOT OTHERWISE CLASSIFIED	PARTICULATES NOT OTHERWISE CLASSIFIED
	TOTAL DUST: 15 MG/M3	TOTAL DUST: 10 MG/M3
	RESPIRABLE FRACTION: 5 MG/M3	RESPIRABLE FRACTION: 3 MG/M3
MICA	6 MG/M3	3 MG/M3

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SILICA	6 MG/M3	10 MG/M3
STANNOUS OCTOATE	.1 MG/M3	.1 MG/M3
SILICONE	NOT REGULATED	NOT REGULATED
PIGMENT	NOT REGULATED	NOT REGULATED

DURING THE USE OF THIS PRODUCT ON FIRES, EXHAUST GASES AND PRODUCTS OF INCOMPLETE COMBUSTION ARE THE MAIN RESPIRATORY HAZARDS. IN THE MANUFACTURE OF THIS PRODUCT, EMPLOYERS AND EMPLOYEES MUST USE THEIR COLLECTIVE JUDGMENT IN DETERMINING THE ON-THE-JOB SETTINGS WHERE THE USE OF A DUST MASK OR RESPIRATOR IS PRUDENT. THE NEED FOR RESPIRATORY PROTECTION IS NOT LIKELY FOR SHORT-TERM USE IN WELL-VENTILATED AREAS.

RESPIRATORY PROTECTION: USE AN N-95 DUST MASK FOR LIMITED EXPOSURES AND USE AIR-PURIFYING RESPIRATORS WITH HIGH EFFICIENCY PARTICULATE AIR FILTERS (HEPA FILTERS) FOR PROLONGED EXPOSURES.

EYE PROTECTION: WEAR CHEMICAL GOGGLES OR FULL-FACE AIR-PURIFYING RESPIRATOR.

SKIN PROTECTION: USE NITRILE, LATEX, OR SIMILAR GLOVES AND COVERALLS. GOOD PERSONAL HYGIENE PRACTICES ARE ESSENTIAL. AFTER HANDLING THE PRODUCT, AVOID FOOD, TOBACCO PRODUCTS, OR OTHER MEANS OF TRANSFERRING THE PRODUCT FROM HAND TO MOUTH UNTIL AFTER THOROUGHLY WASHING.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: LIGHT YELLOW FINE POWDER THAT IS ODORLESS.

APPARENT DENSITY: 0.82

SOLUBILITY: THE PRODUCT IS COATED WITH WATER REPELLANT SILICONE. NOT IMMEDIATELY SOLUBLE IN WATER.

PH: APPROXIMATELY 4 -5

FLASH POINT: N/A

FLAMMABILITY: N/A

VAPOR PRESSURE: N/A

BOILING POINT: N/A

EXPLOSIVE OR OXIDIZING PROPERTIES: NONE

SECTION X. STABILITY AND REACTIVITY

STABILITY: STABLE

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DECOMPOSITION PRODUCTS: THIS PRODUCT MAY DECOMPOSE IN FIRE AND RELEASE CARBON MONOXIDE, CARBON DIOXIDE, AND SULFUR DIOXIDE. OXIDES OF PHOSPHOROUS AND AMMONIA HAVE BEEN REPORTED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS REACTIONS: NONE

SECTION XI. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

MONOAMMONIUM PHOSPHATE LD50 (RAT): >1000 MG/KG BODY WEIGHT.

TARGET ORGANS IN HUMANS: RESPIRATORY SYSTEM, EYES, AND SKIN. THIS PRODUCT IS AN IRRITANT TO EPITHELIAL TISSUE AND MAY AGGRAVATE DERMATITIS. NO INDICATION THAT THE PRODUCT CAUSES SENSITIZATION.

CHRONIC TOXICITY: PNEUMOCONIOSIS, OR "DUSTY LUNG" DISEASE, MAY RESULT FROM CHRONIC EXPOSURE TO ANY DUST.

REPRODUCTIVE TOXICITY: THIS PRODUCT IS NOT KNOWN TO HAVE ANY REPRODUCTIVE EFFECTS.

SECTION XII. ECOLOGICAL INFORMATION

ECOTOXICITY: NEGATIVE EFFECTS ARE UNKNOWN. PROVIDES NUTRIENT NITROGEN AND PHOSPHOROUS TO PLANT LIFE.

DEGRADABILITY: DEGRADES RAPIDLY IN WET OR HUMID ENVIRONMENT.

BIOACCUMULATION: UNKNOWN EXTENT.

MOBILITY IN SOIL: WATER-SOLUBLE. MAY LEECH IN TO GROUNDWATER.

SECTION XIII. DISPOSAL CONSIDERATION

THIS PRODUCT IS NOT A RCRA CHARACTERISTICALLY HAZARDOUS OR LISTED HAZARDOUS WASTE. DISPOSE OF ACCORDING TO STATE OR LOCAL LAWS, WHICH MAY BE MORE RESTRICTIVE THAN FEDERAL REGULATIONS. BE AWARE THAT PRODUCT USED ON A FIRE MAY BE ALTERED OR CONTAMINATED AND THEREBY REQUIRE DIFFERENT DISPOSAL CONSIDERATIONS.

SECTION XIV. TRANSPORTATION INFORMATION

THIS PRODUCT IS NOT DEFINED AS A HAZARDOUS MATERIAL UNDER U.S. DEPARTMENT OF TRANSPORTATION 49 CFR 172, OR BY TRANSPORT CANADA "TRANSPORTATION OF DANGEROUS GOODS" REGULATIONS.

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PLEASE NOTE: ALTHOUGH THIS MATERIAL IS NOT CONSIDERED HAZARDOUS, WHEN CONTAINED IN A STORED PRESSURE FIRE EXTINGUISHER PRESSURIZED WITH A NONFLAMMABLE GAS, THE EXTINGUISHER ITSELF IS CONSIDERED A HAZARDOUS MATERIAL BY THE U.S. DEPARTMENT OF TRANSPORTATION (USDOT) AND TRANSPORT CANADA (TC). THE PROPER SHIPPING NAME SHALL BE FIRE EXTINGUISHER AND THE UN IDENTIFICATION NUMBER IS UN 1044. THE USDOT HAZARD CLASS IS LIMITED QUANTITY WHEN PRESSURIZED TO LESS THAN 241 PSIG AND WHEN SHIPPED VIA HIGHWAY OR RAIL. USE CLASS 2.2, NON-FLAMMABLE GAS, WHEN SHIPPING VIA AIR.

SECTION XV. REGULATORY INFORMATION

INTERNATIONAL INVENTORY STATUS: ALL INGREDIENTS ARE ON THE FOLLOWING INVENTORIES

COUNTRY	AGENCY
U.S.A.	TSCA
CANADA	DSL
EUROPE	EINECS/ELINCS
AUSTRALIA	AICS
JAPAN	MITI

SOUTH KOREA KECL

EUROPEAN RISK AND SAFETY PHRASES: EU CLASSIFICATION: HARMFUL

R PHRASES: 22: HARMFUL IF SWALLOWED 36/37/38: IRRITATING TO EYES, RESPIRATORY SYSTEM, AND SKIN.

S PHRASES:

26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE

36: WEAR SUITABLE PROTECTIVE CLOTHING

U.S. FEDERAL REGULATORY INFORMATION: NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER SARA REPORTING REQUIREMENTS OR HAVE SARA THRESHOLD PLANNING QUANTITIES OR CERCLA REPORTABLE QUANTITIES, OR ARE REGULATED UNDER TSCA 8(D).

STATE REGULATORY INFORMATION:

CHEMICALS IN THIS PRODUCT ARE COVERED UNDER THE SPECIFIC STATE REGULATIONS NOTED:

ALASKA: DESIGNATED TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA: PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS: NONE

FLORIDA:

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SUBSTANCE LIST: MICA DUST

ILLINOIS: TOXIC SUBSTANCE LIST: NONE

KANSAS: SECTION 302/303 LIST: NONE

MASSACHUSETTS: SUBSTANCE LIST: MICA DUST

MINNESOTA: LIST OF HAZARDOUS SUBSTANCES: NONE

MISSOURI: EMPLOYER INFORMATION/TOXIC SUBSTANCE LIST: NONE

NEW JERSEY: RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST: NONE

NORTH DAKOTA: LIST OF HAZARDOUS CHEMICALS, REPORTABLE QUANTITIES: NONE

PENNSYLVANIA: HAZARDOUS SUBSTANCE LIST: NONE

RHODE ISLAND: HAZARDOUS SUBSTANCE LIST: MICA DUST

TEXAS: HAZARDOUS SUBSTANCE LIST: NO

WEST VIRGINIA: HAZARDOUS SUBSTANCE LIST: NONE

WISCONSIN: TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA PROPOSITION 65: NO COMPONENT IS LISTED ON THE CALIFORNIA PROPOSITION 65 LIST

SECTION XVI. OTHER INFORMATION

THIS SAFETY DATA SHEET PREPARED IN ACCORDANCE WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

HMIS RATINGS: HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 PERSONAL PROTECTIVE EQUIPMENT USE N-95 DUST MASK (SEE SECTION 8)

WHMIS (CANADIAN WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION): D2B: MAY IRRITATE EYES, MUCOUS MEMBRANES, AND/OR SKIN

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH AS TYPICAL VALUES AND NOT AS PRODUCT SPECIFICATIONS. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE.

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SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Other Identifiers: Product Code(s): Model Code(s) of Extinguishers:

Recommended Use:

Manufacturer: Internet Address: Address:

Company Telephone: E-mail Address: Emergency Contacts:

Revised:

ABC Dry Chemical Fire Extinguishant Multi-purpose Dry Chemical CH555, F13, F11 402, IS 18ABC, IS35ABC, IS 45ABC, 13ABC, V25ABC, VH25ABC, V30ABC, VH30ABC, V50ABC, V550ABC, VS75ABC, V250ABC Fire suppression, not for human or animal drug use. AMEREX CORPORATION www.amerex-fire.com

7595 Gadsden Highway, P.O. Box 81 Trussville, AL 35173-0081 (205) 655-3271 info@amerex-fire.com Chemtrec 1(800) 424-9300 or (703) 527–3887 March 13, 2018

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: Category 3	None	None
Skin Sensitization: NO	None	None
Eye: Category 2A	None	Warning
STOT – Category 3	None	Warning
Carcinogen: Category None	None	None

GHS – Label Symbol(s):



If Pressurized: Gas Under Pressure

GHS – Words(s):

Warning

Other Hazards Not Resulting in Classification: Mica may contain small quantities of quartz (crystalline silica). Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling

lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans. In the case of normal use of this product, exposure to silica should be nil.

The attapulgite clay used in this product has a fiber length of less than 5um; therefore, the clay is not considered to be carcinogenic in animals or humans.

GHS Hazard	GHS Codes(s)	Code Phrase(s)	
Physical	H229	*- Contents under pressure; may explode if heated.	
Health	H303	May be harmful if swallowed	
	315	Causes skin irritation	
	319	Causes serious eye irritation	
	335	May cause respiratory irritation	
Environmental	None		
Precautionary:			
General	P101	If medical advice is needed, have product container or label at hand	
Prevention	P251	Do not pierce or burn, even after use.	
	261	Avoid breathing dust/fumes/gas/mist/vapours/spray.	
	264	Wash exposed skin thoroughly after handling.	
	280	Wear protective gloves/protective clothing/eye protection/face protection.	
Response	P312	Call a doctor if you feel unwell.	
	321	Specific treatment (see Section 4. First Aid Measures)	
	362	Take off contaminated clothing.	
	302+352	IF ON SKIN: Wash with plenty of water.	
	304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if	
		present and easy to do – continue rinsing.	
	332+313	If skin irritation occurs: Get medical advice/attention.	
	342+311	If experiencing respiratory symptoms: Call a doctor.	
	337+313	If eye irritation persists get medical advice/attention.	
Storage	P410 +403	*- Protect from sunlight. Store in well-ventilated place.	
Disposal	P501	Dispose of contents through a licensed disposal company. Contaminated container should	
		be disposed of as unused product.	

GHS – Hazard Phrases

*- If under pressure

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %	Classification
Mono-ammonium phosphate	231-764-5	01-2119488166-29	7722-76-1	80-98	NA
Attapulgite clay	601-805-5	Not Available	12174-11-7	3-16	NA
Mica- potassium aluminum silicate	310-1276	Not Available	12001-26-2	1-2	NA
Silicone oil methyl hydrogen polysiloxane	613-152-3	Not Available	63148-57-2	<1	NA
Calcium carbonate	207-439-9	Not Available	1317-65-3	<1	NA
Amorphous silica precipitated synthetic zeolite	231-545-4	01-2119379499-16- 0036	7631-86-9	<1	NA
Yellow 14 pigment – di-azo dye	226-789-3	Not Available	5468-75-7	<1	NA

Emergency overview:

Light yellow, fine solid powder, odorless.

Adverse health effects and symptoms:

Mild irritant to the respiratory system. Irritant to eyes, and skin. Symptoms may include coughing,

shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

Section 4. FIRST AID MEASURES

Eye Exposure:	May cause irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation develops, or if vision changes occur.
Skin Exposure:	May cause skin irritation. In case of contact, wash with plenty of soap and water. Seek medical attention if irritation persists.
Inhalation:	May cause irritation, along with coughing. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if irritation persists.
Ingestion:	Overdose symptoms may include numbness or tingling in hands or feet, uneven heart rate, paralysis, feeling faint, chest pain or heavy feeling, pain spreading to the arm or shoulder, nausea, diarrhea, sweating, general ill feeling, or seizure (convulsions). If victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist.
Medical conditions possibly	
aggravated by exposure:	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease. Chronic overexposure may cause pneumoconiosis ("dusty lung" disease).

Section 5. FIRE-FIGHTING MEASURES

Flammable Properties: Flash Point: Suitable Extinguishing Media:

Hazardous Combustion Products:

Not flammable Not determined Non-combustible. Use extinguishing media suitable for surrounding conditions. Carbon oxides

Explosion Data: Sensitivity to Mechanical Impact: Sensitivity to Static Discharge: Unusual fire/explosion hazards:

Protective Equipment and Precautions for Firefighters:

Not sensitive Not sensitive In a fire this material may decompose, releasing oxides of carbon, potassium and nitrogen (see Section 10).

As in any fire, wear self-contained breathing apparatus pressure-demand. NIOSH (approved or equivalent) and full protective gear.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, and clothing. Minimum - safety glasses, gloves, and a dust Personal Protective Equipment: respirator. **Emergency Procedures:** NA Methods for Containment: Prevent further leakage or spillage if safe to do so. Methods for Clean Up: Avoid dust formation; clean up released material using vacuum or wet sweep and shovel to minimize generation of dust. Bag and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete. If product is contaminated, use PPE and containment Other: appropriate to the nature of the most toxic chemical/material in the mixture.

Section 7. HANDLING AND STORAGE

Personal Precautions:	Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8).
Conditions for Safe Storage:	Keep product in original container or extinguisher. Contents may be under pressure – inspect for extinguisher rust periodically to ensure container integrity.
Incompatible Products:	Do not mix with other extinguishing agents, particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high humidity. Do not combine with chlorine compounds.
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Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Mono- ammonium phosphate	PNOC ^{**} Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	PNOC Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	NA
Mica	6 mg/m ³	3 mg/m3		NA
Attapulgite clay	PNOC** Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	PNOC Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	
Silicone oil	NR**	NR		
Calcium carbonate	PNOC Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³		NA
Amorphous silica	20mppcf <u>80 mg/m³</u> or % SiO ₂	10 mg/m ³	4 mg/m ³	NA
Yellow 14 pigment	NR	NR	NR	NA

*German regulatory limits **PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) *** NR = Not Regulated. All values are 8 hour time weighted average concentrations.

Engineering Controls:

Showers Eyewash stations Ventilation systems

Personal Protective Equipment - PPE Code E:

The need for respiratory protection is not probable during short-term exposure. During production, the manufacturer should use judgement concerning the need for PPE.





Eye/Face Protection: Skin and Body Protection: Respiratory Protection:





Tightly fitting safety goggles Wear protective gloves/coveralls If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use P100 respirators for limited exposure. Use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. The need for respiratory protection is not likely for short-term use in well ventilated areas.

Hygiene Measures:

Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Molecular Weight: Odor: Odorless Odor Threshold: Decomposition Temperature ^oC: 100 - 120 Freezing Point ^oC: Initial Boiling Point ^oC: **Physical State:** pH: Flash Point ^oC: None Autoignition Temperature ^oC: None Boiling Point/Range ^oC: Melting Point/Range ^oC: Flammability/Explosion Limits in Air ^oC: Explosive Properties: None **Oxidizing Properties:** None Volatile Component (%vol) **Evaporation Rate:** Vapor Density: Vapor Pressure: Specific gravity at 25 °C: Solubility: Partition Coefficient: Viscosity: NOTE: NH4H2PO4 - Monoammonium Phosphate

Light yellow powder, finely divided odorless solid NH4H2PO4: 115.03 No information available No information available No information available **Crystalline Powder** Approximately 4.4 to 4.9 No information available NH4H2PO4: 190 Upper – None; Lower-None Not applicable No information available No information available NH4H2PO4: 1.41 mm/Hg NH4H2PO4: 1.80 40.4 g/100 ml NH4H2PO4 Est: -4.11 No information available

Section 10. STABILITY AND REACTIVITY

Stability:

Incompatibles:

Conditions to Avoid: Hazardous Decomposition Products:

Possibility of Hazardous Reactions: Hazardous Polymerization Stable under recommended storage and handling conditions. Strong oxidizing agents; Strong acids; sodium hypochlorite and chlorine compounds. Protect from moisture Storage or handling near incompatibles. Carbon, nitrogen, and potassium oxides. Heat of fire may release carbon monoxide. None Does not occur

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Symptoms: Inhalation: Eyes: Skin: Acute Toxicity: Chronic Toxicity: Short-term Exposure: Long-term Exposure: Inhalation, skin and eye contact.

Irritation, coughing. Irritation. Irritation. Relatively non-toxic.

None known. As with all dusts, pneumoconiosis, or "dusty lung" disease, may result from chronic exposure.

Acute Toxicity Values - Health

Chemical Name		LD50	LC50 (Inhalation)
	Oral	Dermal	
Mono-ammonium phosphate	5750 mg/kg (rat)	>7940 mg/kg (rabbit)	Not available
Mica	None	None	None
Attapulgite clay	None	None	None
Silicone oil	None	None	None
Calcium carbonate	6450 mg/kg (rat)	500 mg/24 hr (rabbit)	Not available
Amorphous silica	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>2.2 mg/L (rat)
Yellow 14 pigment	>17000 mg/kg (rat)	>3000 mg/kg (rat)	>4448 mg/m3 (rat)

Reproductive Toxicity:

Target Organs and Effects (TOST):

This product's ingredients are not known to have reproductive or teratogenic effects. Respiratory system (mild irritant).

This product is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization.

Other Toxicity Categories

Chemical Name	Germ Cell Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Mono-ammonium phosphate	None	None	None	Cat 3	None	None
Attapulgite clay	None	None	None	None	None	None
Mica	None	None	None	None	None	None
Silicone oil	None	None	None	None	None	None
Calcium carbonate	None	None	None	None	None	None
Amorphous silica	None	None	None	None	None	None
Yellow 14 pigment	None	None	None	None	None	None

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:	Negative effects unknown. Provides nutrient nitrogen and
Persistence/Degradability:	phosphorus to plant life. Degrades rapidly in humid/wet environment.
Probability of rapid biodegradation:	NH4H2PO4 Est: 0.693 (Rapid);
Anaerobic biodegradation probability:	(NH4)2SO4: Est: 0.684 (Rapid) NH4H2PO4 Est: 0.398 (Slow);
5 1 5	(NH4)2SO4: Est: 0.398 (Slow)
Bioaccummulation potential:	Low.
Bioconcentration factor:	NH4H2PO4: 3.16 L/kg (wet weight) (Low BCF)
Bioaccummulation factor:	NH4H2PO4: 63.04 L/kg (wet weight)
Mobility in soil:	Slow evaporation rate; water soluble, may leach to groundwater
Log Koc:	NH4H2PO4 Est: -1.25
Log Koa:	NH4H2PO4 Est: 16.72
Log Kaw:	NH4H2PO4 Est: -20.86
NOTE: NH4H2PO4 – Mono-ammonium	Phosphate

Other Adverse Ecological Effects:

No other known effects at this time

Aquatic Toxicity Values – Environment – Research

Aqualo reviety values Environment Research					
Chemical Name	Acute (LC50)	Chronic (LC50)			
Mono-ammonium phosphate	N/A	N/A			
Mica	N/A	N/A			
Attapulgite clay	N/A	N/A			
Silicone oil	N/A	N/A			
Calcium carbonate	N/A	N/A			
Amorphous silica	N/A	N/A			
Yellow 14 pigment	N/A	N/A			

Aquatic Toxicity Values – Environment – Estimates

Chemical Name	Acute (LC50)	EC50
Mono-ammonium phosphate	2,91e+07 mg/L Fish 96 hr; 9.4e+06 mg/l Daphnid 48 hr;	6.70e+05 mg/L Gr. Algae 96 hr
Mica	N/A	N/A
Attapulgite clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling

Waste Disposal Considerations

Contaminated Packaging

Use appropriate PPE when handling, and wash thoroughly after handling (see Section 8). Dispose in accordance with federal, state, and local regulations. Dispose in accordance with federal, state, and local regulations.

NOTES:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. TRANSPORT INFORMATION

UN Number: UN Proper Shipping Name: Transport Hazard Class: Packing Group: Marine Pollutant?:	NA NA NA NO
ΙΑΤΑ	Not regulated
DOT NOTES:	Not regulated

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

Special Precautions for Shipping:

The transportation information above covers the ABC 555 dry chemical extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems. If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

Section 15. REGULATORY INFORMATION

International Inventory Status:	All ingredients are on the following inventories	
Country(ies)	Agency	Status
United States of America	TSCA	Yes
Canada	DSL	Yes
Europe	EINECS/ELINCS	Yes
Australia	AICS	Yes
Japan	MITI	Yes
South Korea	KECL	Yes

REACH Title XVII Restrictions:

No information available

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on Label	Pollution Release and Transfer Registry (Class II)	Pollution Release and Transfer Registry (Class I)	Poison and Deleterious Substances Control Law
Monoammonium Phosphate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Component	ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA – Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
Monoammonium Phosphate 7722-76-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgite clay 12174-11-7 (>3)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Mica- potassium aluminum silicate 120001-26-2 (>2)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Calcium carbonate 471-34-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amorphous silica 69012-64-2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Yellow 14 pigment 5468-75-7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

European Risk and Safety phrases:

EU Classification: Xr	n - Irritant	
R Phrases:	20	Harmful by inhalation.
	36/37/38	Irritating to eyes, respiratory system and skin.
S Phrases:	22	Do not breath dust.
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36	Wear suitable protective clothing.

U.S. Federal Regulatory Information:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain and chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

SARA 311/312 Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
*-Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

* - Only applicable if material is in a pressurized extinguisher.

Clean Water/Clean Air Acts:

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None California – Permissible Exposure Limits for Chemical Contaminants: None Florida – Substance List: Mica Dust Illinois – Toxic Substance List: None Kansas – Section 302/303 List: None Massachusetts – Substance List: Mica Dust

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Minnesota – List of Hazardous Substances: None Missouri – Employer Information/Toxic Substance List: None New Jersey – Right to Know Hazardous Substance List: None North Dakota – List of Hazardous Chemicals, Reportable Quantities: None Pennsylvania – Hazardous Substance List: None Rhode Island – Hazardous Substance List: Mica Dust Texas – Hazardous Substance List: No West Virginia – Hazardous Substance List: None Wisconsin – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

<u>Other</u>: Mexico – Grade Canada – WHMIS Hazard Class

No component listed No component listed

Section 16. OTHER INFORMATION

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

Issuing Date Revision Date Revision Notes 17-June-2012 13-March-2018 None

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by William F. Garvin, CIH.



SAFETY DATA SHEET

AEROKROIL

11/10/2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	AEROKROIL
Product Use:	Penetrant/Lubricant for Industrial Use
Manufacturer:	Kano Laboratories, Inc., 1000 E. Thompson Lane Nashville, TN 37211
Emergency Phone Number:	Chemtrec 1 (800) 424-9300
Manufacturer Phone Number:	615-833-4101
Website:	www.kroil.com
SDS Date of Preparation:	November 10, 2020

SECTION 2: HAZARDS IDENTIFICATION

GHS / HAZCOM 2012 Classification:

HEALTH	PHYSICAL
Skin Irritation Category 2 Eye Irritation Category 2A Aspiration Hazard Category 1 Skin Sensitization Category 1	Flammable Aerosol Category 2 Gas Under Pressure: Compressed Gas



Flammable aerosol.

Contains gas under pressure; may explode if heated. Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Pressurized container. Do not pierce or burn, even after use.

Wash thoroughly after handling.

Contaminated clothing must not be allowed out of the workplace.

Wear protective gloves and eye protection.

IF SWALLOWED: Immediately call a POISON CENTER. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

In case of fire: Use carbon dioxide, dry chemical or foam to extinguish. Protect from sunlight.

Do not expose to temperatures exceeding 50°C/122°F.

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	%
Severely Hydrotreated Petroleum Distillates	64742-52-5 64742-53-6	30-50
LVP Aliphatic Hydrocarbon	64742-47-8	20-40
Proprietary Additive	Proprietary	5-15
Diisobutyl Ketone	108-83-8	5-15
Aliphatic Alcohol #1	123-42-2	1-<3
Aliphatic Alcohol #2	78-83-1	1-<3
Carbon Dioxide Propellant	124-38-9	1-5

The exact percentage has been withheld as a trade secret or is a variation in formula.

SECTION 4: FIRST AID MEASURES

EYE: Rinse thoroughly with water for several holding the eye lids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

SKIN: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

INHALATION: Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop.

INGESTION: DO NOT induce vomiting. Keep the victim calm and warm. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED: May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, nausea and vomiting. Harmful or fatal if swallowed. Aspiration into the lungs during ingestion or vomiting may cause lung damage. May cause an allergic skin reaction.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED: If swallowed, get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical or foam. Water may be ineffective but can be used to cool containers and structures.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Contents under pressure. Keep away from heat and open flames. Container may rupture or explode in the heat of a fire. Prolonged exposure to temperatures above 120oF may cause cans to burst. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

Never use welding or cutting torch on or near containers (even empty) because product can ignite explosively. Combustion products may be hazardous: Oxides of carbon, organic compounds, smoke and fumes.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water. Protect against bursting cans.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Ventilate the area with explosion-proof equipment.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Report spills and releases as required to appropriate authorities.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Place leaking can in a pail or pan in a well-ventilated area until the pressure has be released. Cover liquid with an inert absorbent material and collect into an appropriate container for disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash exposed skin thoroughly with soap and water after use. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Do not cut, braze, solder, grind or weld on or near containers. Contents under pressure. Do not puncture or incinerate container.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store in a cool, well ventilated area at temperatures below 120°F. Do not store in direct sunlight. Store as a Level 3 aerosol.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	EXPOSURE LIMITS
Severely Hydrotreated Petroleum Distillates (as mineral oil)	5 mg/m3 TWA OSHA PEL (as oil mist) 5 mg/m3 TWA ACGIH TLV (inhalable fraction)
LVP Aliphatic Hydrocarbon	166 ppm TWA Manufacturer Recommended (vapor)
Proprietary Additive	None Established
Diisobutyl Ketone	50 ppm TWA OSHA PEL 25 ppm TWA ACGIH TLV
Aliphatic Alcohol #1	50 ppm OSHA TWA PEL- 50 ppm TWA ACGIH TLV
Aliphatic Alcohol #2	100 ppm TWA OSHA PEL 50 ppm TWA ACGIH TLV
Carbon Dioxide Propellant	5000 ppm TWA OSHA PEL 5000 ppm TWA ACGIH TLV 30000 ppm STEL ACGIH TLV

APPROPRIATE ENGINEERING CONTROLS: Use with adequate general or local exhaust ventilation to maintain concentrations below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: If the exposure limits listed above are exceeded, a NIOSH approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

HAND PROTECTION: Impervious gloves are recommended when needed to avoid skin contact.

EYE PROTECTION: Chemical safety goggles recommended.

SKIN PROTECTION: Impervious clothing as required to prevent skin contact and contamination of personal clothing.

HYGIENE MEASURES: Suitable eye wash and washing facilities should be available in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Slightly reddish liquid packaged as an aerosol	Odor:	Solvent
Odor Threshold:	Not available	pH:	Not available
Melting/Freezing Point:	Not available	Boiling Point/Range:	Not available
Flash Point:	132°F (55.5°C) TOC	Evaporation Rate:	Not available
Flammability: (Solid, Gas)	Not applicable	Flammability Limits:	10.9% (aliphatic alcohol #2) LEL: 0.7% (petroleum distillates)
Vapor Pressure:	Not available	Vapor Density:	Not available
Relative Density:	0.8596	Solubilities:	Negligible in Water
Partition Coefficient: (N-Octanol/Water)	Not available	Autoignition Temperature:	Not available
Decomposition Temperature:	Not available	Viscosity:	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None known.

CHEMICAL STABILITY: Stable under normal conditions of storage or use.

POSSIBILITY OF HAZARDOUS REACTIONS: None known.

CONDITIONS TO AVOID: Avoid heat, sparks, flames and all other sources of ignition.

INCOMPATIBLE MATERIALS: Avoid strong oxidizing agents, reducing agents, acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce oxides of carbon, acetone, acrid fumes and smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

EYE: May cause eye irritation with redness, tearing and stinging.

SKIN: May cause irritation with redness, rash, swelling. Prolonged or repeated contact may result in defatting and dermatitis. Repeated skin contact may cause sensitization (allergic skin reaction) in some individuals.

INHALATION: Inhalation of vapors or mists may cause mucous membrane and upper respiratory tract irritation and central nervous system depression. Symptoms may include coughing, wheezing, shortness of breath, headache, dizziness, drowsiness, nausea, fatigue and unconsciousness.

INGESTION: Ingestion is an unlikely route of exposure for aerosol products. Swallowing may cause gastrointestinal irritation with abdominal pain, nausea, vomiting and diarrhea and central nervous system depression with symptoms including headache, dizziness, intoxication, weakness, nausea, and vomiting. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

CHRONIC HAZARDS: Aliphatic Alcohol #1 is suspected of damaging fertility or the unborn child.

CARCINOGEN STATUS: None of the components of this product at greater than 0.1% are listed as carcinogens by OSHA, IARC or NTP.

ACUTE TOXICITY: Toxicological testing has not been performed on this product as a mixture.

LVP Aliphatic Hydrocarbon: Oral rat LD50 > 5000 mg/kg; Dermal rat LD50 > 5000 mg/kg, Inhalation rat LC50 > 2.18 mg/L/4 hr.

Severely Hydrotreated Petroleum Distillates: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.28 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg Proprietary Additive: Oral rat LD50 3200 mg/kg; Dermal rabbit LD50 5000 mg/kg

Diisobutyl Ketone: Oral rat LD50 5233 mg/kg; Dermal rat LD50 > 2000 mg/kg; Inhalation rat LC50 14.5 mg/L/4 hr.

Aliphatic Alcohol #1: Oral rat LD50 3002 mg/kg: Dermal rat LD50 > 1875 mg/kg: Inhalation rat LC50> 7.6 mg/L/4 hr.

Aliphatic Alcohol #2: Oral rat LD50 > 2830 mg/kg: Inhalation rat LC50 24.6 mg/L/4 hr; Dermal rabbit LD50 > 2000 mg/kg Carbon Dioxide: Inhalation rat LC50 167857 ppm/4 hr

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No toxicity data available for the product.

LVP Aliphatic Hydrocarbon: 96 hr. LC50 Pimephales promelas > 100 mg/L; 48 hr. EC50 daphnia magna>1000 mg/L; 72 hr. EC50 Pseudokirchnerella subcapitata > 100 mg/L

Severely Hydrotreated Petroleum Distillates: 96 hr LL50 Oncorhynchus mykiss 2.5 mg/kg, 48 hr EL50 daphnia magna 1.4 mg/L, 72 hr EL50 Pseudokirchnerella subcapitata 1.3 mg/L

Proprietary Ingredient: 48 hr. LC50 daphnia magna 17-28 mg/L

Diisobutyl Ketone: 96 hr. LC50 Oncorhynchus mykiss 30 mg/L; 48 hr. EC50 daphnia magna 37.2 mg/L, 72 hr.

Aliphatic Alcohol #1: 96 hr. LC50 Oryzias latipes >100 mg/L: 48 hr. EC50 daphnia magna >1000 mg/L: 72 hr. EC50 Pseudokirchnerella subcapitata>1000 mg/L

Aliphatic Alcohol #2: 96 hr LC50 Pimephales promelas 1430 mg/L; 48 hr EC50 daphnia pulex 1100 mg/L; 72 hr EC50 Pseudokirchnerella subcapitata 1799 mg/L

Carbon Dioxide: 96 hr LC50 Oncorhynchus mykiss 35 mg/L

PERSISTENCE AND DEGRADABILITY: Aliphatic Alcohol #1 and Aliphatic Alcohol #2 are readily biodegradable.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available

OTHER ADVERSE EFFECTS: None known

SECTION 13: DISPOSAL INFORMATION

DISPOSAL INSTRUCTIONS: Dispose of product in accordance with all local, state/provincial and federal regulations. Do not puncture or incinerate.

CONTAMINATED PACKAGING: Offer empty packaging material to local recycling facilities.

SECTION 14: TRANSPORT INFORMATION

	UN NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PACKING Group	ENVIRONMENTAL Hazard
DOT / 49 CFR GROUND		Limited Quantity			
DOT AIR	UN1950	Aerosols, Flammable, Limited Quantity	2.1	None	None
IMDG	UN1950	Aerosols, Limited Quantity	2.1	None	None
IATA	UN1950	Aerosols, Flammable, Limited Quantity	2.1	None	None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable - product is transported only in packaged form. Special precautions: None known.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product has a Reportable Quantity (RQ) of 166,666 lbs. (based on the RQ for Aliphatic alcohol #2 of 5,000 lbs present at 3%) maximum. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

STATE REPORTING REGULATIONS:

Massachusetts Right To Know: Diacetone Alcohol 123-42-2, Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9 New Jersey Right To Know: Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9, Pine Oil 8002-09-3 Pennsylvania Right To Know: Diacetore Alcohol 123-42-2, Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9

California Proposition 65: // WARNING: This product can expose you to chemicals including beta-myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

SARA TITLE III:

Hazard Category for Section 311/312: Refer to Section 2 for the OSHA Hazard Classification

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None.

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

Canadian DSL: All of the components of this product are listed on the Canadian Domestic Substances List

	SECTION 16: OTHER INFORMATION			
HMIS RATINGS:	Health - 2	Flammability - 4	Physical Hazard - O	
NFPA RATINGS:	Health - 1	Flammability - 2	Instability - O	
SDS REVISION HISTORY: Updated formulation - Section 15				

DATE OF PREPARATION: November 20, 2020

DATE OF LAST REVISION: July 01, 2020

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or the consequences of its use or misuse.



SAFETY DATA SHEET

AEROKROIL

11/10/2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	AEROKROIL
Product Use:	Penetrant/Lubricant for Industrial Use
Manufacturer:	Kano Laboratories, Inc., 1000 E. Thompson Lane Nashville, TN 37211
Emergency Phone Number:	Chemtrec 1 (800) 424-9300
Manufacturer Phone Number:	615-833-4101
Website:	www.kroil.com
SDS Date of Preparation:	November 10, 2020

SECTION 2: HAZARDS IDENTIFICATION

GHS / HAZCOM 2012 Classification:

HEALTH	PHYSICAL	
Skin Irritation Category 2 Eye Irritation Category 2A Aspiration Hazard Category 1 Skin Sensitization Category 1	Flammable Aerosol Category 2 Gas Under Pressure: Compressed Gas	



Flammable aerosol.

Contains gas under pressure; may explode if heated. Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Pressurized container. Do not pierce or burn, even after use.

Wash thoroughly after handling.

Contaminated clothing must not be allowed out of the workplace.

Wear protective gloves and eye protection.

IF SWALLOWED: Immediately call a POISON CENTER. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

In case of fire: Use carbon dioxide, dry chemical or foam to extinguish. Protect from sunlight.

Do not expose to temperatures exceeding 50°C/122°F.

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

10F6

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	%
Severely Hydrotreated Petroleum Distillates	64742-52-5 64742-53-6	30-50
LVP Aliphatic Hydrocarbon	64742-47-8	20-40
Proprietary Additive	Proprietary	5-15
Diisobutyl Ketone	108-83-8	5-15
Aliphatic Alcohol #1	123-42-2	1-<3
Aliphatic Alcohol #2	78-83-1	1-<3
Carbon Dioxide Propellant	124-38-9	1-5

The exact percentage has been withheld as a trade secret or is a variation in formula.

SECTION 4: FIRST AID MEASURES

EYE: Rinse thoroughly with water for several holding the eye lids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

SKIN: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

INHALATION: Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop.

INGESTION: DO NOT induce vomiting. Keep the victim calm and warm. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED: May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, nausea and vomiting. Harmful or fatal if swallowed. Aspiration into the lungs during ingestion or vomiting may cause lung damage. May cause an allergic skin reaction.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED: If swallowed, get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical or foam. Water may be ineffective but can be used to cool containers and structures.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Contents under pressure. Keep away from heat and open flames. Container may rupture or explode in the heat of a fire. Prolonged exposure to temperatures above 120oF may cause cans to burst. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

Never use welding or cutting torch on or near containers (even empty) because product can ignite explosively. Combustion products may be hazardous: Oxides of carbon, organic compounds, smoke and fumes.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water. Protect against bursting cans.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Ventilate the area with explosion-proof equipment.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Report spills and releases as required to appropriate authorities.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Place leaking can in a pail or pan in a well-ventilated area until the pressure has be released. Cover liquid with an inert absorbent material and collect into an appropriate container for disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash exposed skin thoroughly with soap and water after use. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Do not cut, braze, solder, grind or weld on or near containers. Contents under pressure. Do not puncture or incinerate container.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store in a cool, well ventilated area at temperatures below 120°F. Do not store in direct sunlight. Store as a Level 3 aerosol.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	EXPOSURE LIMITS
Severely Hydrotreated Petroleum Distillates (as mineral oil)	5 mg/m3 TWA OSHA PEL (as oil mist) 5 mg/m3 TWA ACGIH TLV (inhalable fraction)
LVP Aliphatic Hydrocarbon	166 ppm TWA Manufacturer Recommended (vapor)
Proprietary Additive	None Established
Diisobutyl Ketone	50 ppm TWA OSHA PEL 25 ppm TWA ACGIH TLV
Aliphatic Alcohol #1	50 ppm OSHA TWA PEL- 50 ppm TWA ACGIH TLV
Aliphatic Alcohol #2	100 ppm TWA OSHA PEL 50 ppm TWA ACGIH TLV
Carbon Dioxide Propellant	5000 ppm TWA OSHA PEL 5000 ppm TWA ACGIH TLV 30000 ppm STEL ACGIH TLV

APPROPRIATE ENGINEERING CONTROLS: Use with adequate general or local exhaust ventilation to maintain concentrations below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: If the exposure limits listed above are exceeded, a NIOSH approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

HAND PROTECTION: Impervious gloves are recommended when needed to avoid skin contact.

EYE PROTECTION: Chemical safety goggles recommended.

SKIN PROTECTION: Impervious clothing as required to prevent skin contact and contamination of personal clothing.

HYGIENE MEASURES: Suitable eye wash and washing facilities should be available in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Slightly reddish liquid packaged as an aerosol	Odor:	Solvent
Odor Threshold:	Not available	pH:	Not available
Melting/Freezing Point:	Not available	Boiling Point/Range:	Not available
Flash Point:	132°F (55.5°C) TOC	Evaporation Rate:	Not available
Flammability: (Solid, Gas)	Not applicable	Flammability Limits:	10.9% (aliphatic alcohol #2) LEL: 0.7% (petroleum distillates)
Vapor Pressure:	Not available	Vapor Density:	Not available
Relative Density:	0.8596	Solubilities:	Negligible in Water
Partition Coefficient: (N-Octanol/Water)	Not available	Autoignition Temperature:	Not available
Decomposition Temperature:	Not available	Viscosity:	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None known.

CHEMICAL STABILITY: Stable under normal conditions of storage or use.

POSSIBILITY OF HAZARDOUS REACTIONS: None known.

CONDITIONS TO AVOID: Avoid heat, sparks, flames and all other sources of ignition.

INCOMPATIBLE MATERIALS: Avoid strong oxidizing agents, reducing agents, acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce oxides of carbon, acetone, acrid fumes and smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

EYE: May cause eye irritation with redness, tearing and stinging.

SKIN: May cause irritation with redness, rash, swelling. Prolonged or repeated contact may result in defatting and dermatitis. Repeated skin contact may cause sensitization (allergic skin reaction) in some individuals.

INHALATION: Inhalation of vapors or mists may cause mucous membrane and upper respiratory tract irritation and central nervous system depression. Symptoms may include coughing, wheezing, shortness of breath, headache, dizziness, drowsiness, nausea, fatigue and unconsciousness.

INGESTION: Ingestion is an unlikely route of exposure for aerosol products. Swallowing may cause gastrointestinal irritation with abdominal pain, nausea, vomiting and diarrhea and central nervous system depression with symptoms including headache, dizziness, intoxication, weakness, nausea, and vomiting. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

CHRONIC HAZARDS: Aliphatic Alcohol #1 is suspected of damaging fertility or the unborn child.

CARCINOGEN STATUS: None of the components of this product at greater than 0.1% are listed as carcinogens by OSHA, IARC or NTP.

ACUTE TOXICITY: Toxicological testing has not been performed on this product as a mixture.

LVP Aliphatic Hydrocarbon: Oral rat LD50 > 5000 mg/kg; Dermal rat LD50 > 5000 mg/kg, Inhalation rat LC50 > 2.18 mg/L/4 hr.

Severely Hydrotreated Petroleum Distillates: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.28 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg Proprietary Additive: Oral rat LD50 3200 mg/kg; Dermal rabbit LD50 5000 mg/kg

Diisobutyl Ketone: Oral rat LD50 5233 mg/kg; Dermal rat LD50 > 2000 mg/kg; Inhalation rat LC50 14.5 mg/L/4 hr.

Aliphatic Alcohol #1: Oral rat LD50 3002 mg/kg: Dermal rat LD50 > 1875 mg/kg: Inhalation rat LC50> 7.6 mg/L/4 hr.

Aliphatic Alcohol #2: Oral rat LD50 > 2830 mg/kg: Inhalation rat LC50 24.6 mg/L/4 hr; Dermal rabbit LD50 > 2000 mg/kg Carbon Dioxide: Inhalation rat LC50 167857 ppm/4 hr

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No toxicity data available for the product.

LVP Aliphatic Hydrocarbon: 96 hr. LC50 Pimephales promelas > 100 mg/L; 48 hr. EC50 daphnia magna>1000 mg/L; 72 hr. EC50 Pseudokirchnerella subcapitata > 100 mg/L

Severely Hydrotreated Petroleum Distillates: 96 hr LL50 Oncorhynchus mykiss 2.5 mg/kg, 48 hr EL50 daphnia magna 1.4 mg/L, 72 hr EL50 Pseudokirchnerella subcapitata 1.3 mg/L

Proprietary Ingredient: 48 hr. LC50 daphnia magna 17-28 mg/L

Diisobutyl Ketone: 96 hr. LC50 Oncorhynchus mykiss 30 mg/L; 48 hr. EC50 daphnia magna 37.2 mg/L, 72 hr.

Aliphatic Alcohol #1: 96 hr. LC50 Oryzias latipes >100 mg/L: 48 hr. EC50 daphnia magna >1000 mg/L: 72 hr. EC50 Pseudokirchnerella subcapitata>1000 mg/L

Aliphatic Alcohol #2: 96 hr LC50 Pimephales promelas 1430 mg/L; 48 hr EC50 daphnia pulex 1100 mg/L; 72 hr EC50 Pseudokirchnerella subcapitata 1799 mg/L

Carbon Dioxide: 96 hr LC50 Oncorhynchus mykiss 35 mg/L

PERSISTENCE AND DEGRADABILITY: Aliphatic Alcohol #1 and Aliphatic Alcohol #2 are readily biodegradable.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available

OTHER ADVERSE EFFECTS: None known

SECTION 13: DISPOSAL INFORMATION

DISPOSAL INSTRUCTIONS: Dispose of product in accordance with all local, state/provincial and federal regulations. Do not puncture or incinerate.

CONTAMINATED PACKAGING: Offer empty packaging material to local recycling facilities.

SECTION 14: TRANSPORT INFORMATION

	UN NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PACKING Group	ENVIRONMENTAL Hazard
DOT / 49 CFR GROUND		Limited Quantity			
DOT AIR	UN1950	Aerosols, Flammable, Limited Quantity	2.1	None	None
IMDG	UN1950	Aerosols, Limited Quantity	2.1	None	None
IATA	UN1950	Aerosols, Flammable, Limited Quantity	2.1	None	None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable - product is transported only in packaged form. Special precautions: None known.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product has a Reportable Quantity (RQ) of 166,666 lbs. (based on the RQ for Aliphatic alcohol #2 of 5,000 lbs present at 3%) maximum. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

STATE REPORTING REGULATIONS:

Massachusetts Right To Know: Diacetone Alcohol 123-42-2, Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9 New Jersey Right To Know: Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9, Pine Oil 8002-09-3 Pennsylvania Right To Know: Diacetore Alcohol 123-42-2, Isbutanol 78-83-1, Diisobutyl Ketone 108-83-8, Carbon Dioxide 124-38-9

California Proposition 65: // WARNING: This product can expose you to chemicals including beta-myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

SARA TITLE III:

Hazard Category for Section 311/312: Refer to Section 2 for the OSHA Hazard Classification

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None.

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

Canadian DSL: All of the components of this product are listed on the Canadian Domestic Substances List

	SECT	ION 16: OTHER INF	ORMATION	
HMIS RATINGS:	Health - 2	Flammability - 4	Physical Hazard - O	
NFPA RATINGS:	Health - 1	Flammability - 2	Instability - O	
SDS REVISION HISTORY: Updated formulation - Section 15				

DATE OF PREPARATION: November 20, 2020

DATE OF LAST REVISION: July 01, 2020

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or the consequences of its use or misuse.

Anchorlube G-771

SECTION 1: IDENTIFICATION

Product Name: ANCHORLUBE G-771

Manufacturer: Anchor Chemical Company 777 Canterbury Road Westlake, OH 44145

Information Phone Number: (440) 871-1660 Fax: (440) 871-0665 Emergency Phone Number: (440) 871-1660

Product Use: Metalworking lubricant/coolant for cutting metals

Restriction on Use: None known

SDS Date of Preparation: 8/26/2018

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification (Hazcom-2012):

Physical	Health
Not Hazardous	Not Hazardous

Labeling Elements:

None required

Hazard statement(s) None Precautionary statement(s) None

Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	%
Non-hazardous Ingredients	Proprietary	100%

The specific identity and/or exact percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Eye: Flush eyes with water, holding the eyelids apart. Get medical attention if irritation develops or persists.

Skin: Wash thoroughly with plenty of water. Get medical attention if irritation persists.

Inhalation: Remove to fresh air and keep comfortable for breathing. If irritation occurs, get medical attention.

Ingestion: If large amounts ingested, seek medical attention.

Safety Data Sheet

Anchorlube G-771

Most Important symptoms and effects, both acute and delayed: May cause slight eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention generally not required.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media: Use media that is suitable for the surrounding fire.

Special Hazards Arising from the Chemical: This product is not classified as combustible. Thermal decomposition may yield oxides of carbon and unidentified compounds.

Special Equipment and Precautions for Fire-Fighters: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate personal protective equipment. Use caution: slip hazard.

Environmental Hazards: Report spills and releases as required to appropriate authorities.

Methods and Material for Containment and Cleaning Up: Because of its viscous nature, this product is not expected to leak or spill. Collect liquid spill with an inert absorbent material and place into a suitable container for disposal. Clean area thoroughly.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged skin contact. Avoid inhalation of vapor or mist. Do not transfer to unlabeled containers.

Conditions for Safe Storage, Including any Incompatibilities: Store at room temperature away from extreme heat and open flames.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits	
Non-hazardous Ingredients	None Established	

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to minimize exposure levels. If the product is used at high temperatures, local exhaust ventilation may be required.

Individual Protection Measures:

Respiratory Protection: In operations where exposures are excessive, a NIOSH approved respirator with organic vapor/particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin Protection: If skin irritation occurs, impervious gloves such as rubber or nitrile recommended where needed to avoid skin contact

Eye Protection: Safety glasses or goggles recommended where needed to avoid eye contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green semi paste	Vapor Density (air = 1): Not available		
Odor: Slight almond odor	Specific Gravity: 1.0365		
Odor Threshold: Not established	Water Solubility: Dispersable		
pH: 6.0-6.5	Octanol/Water Partition Coefficient: Not available		
Melting Point/Freezing Point: 0°C (32°F)	Autoignition Temperature: N/A		
Boiling Point: 107.22º (225ºF)	Decomposition Temperature: Not available		
Flash Point: N/A	Viscosity: Not available		
Evaporation Rate: Not available	Explosion Properties: Not explosive		
Flammable Limits:	Oxidizing Properties: Not oxidizing		
LEL: Not established			
UEL: Not established			
Vapor Pressure: Not established	Flammability (solid, gas): N/A		

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known

Conditions to Avoid: Extreme heat and freezing.

Incompatible Materials: Avoid magnesium as this product is water based.

Hazardous Decomposition Products: Thermal decomposition may yield oxides of carbon and other unidentified compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eye: May cause mild irritation.

Skin: Prolonged contact may cause irritation and drying of the skin.

Inhalation: No adverse effects expected at ambient temperatures. Inhalation of vapors and fumes from thermal decomposition may cause respiratory irritation.

Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea.

Chronic Hazards: Prolonged skin contact may cause an allergic reaction.

Carcinogen Status: None of the other components of this product are listed as carcinogens by OSHA, IARC, NTP, or the EU CLP.

Acute Toxicity Values:

No data available. Components are not acutely toxic.

Anchorlube G-771

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

No data available. This product is not expected to be harmful to the environment

Persistence and Degradability: Product is degradable. Unsealed will begin to degrade rapidly. Shelf life is three years if stored capped at room temperature.

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, regional and national regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Proper Shipping Name: Not regulated DOT Technical Name: None DOT Hazard Class: None UN Number: None DOT Labels Required (49CFR172.101): None

IMDG Shipping Description: Not regulated ID Number: None Hazard Class: None Packing Group: None Labels Required: None Marking Required: None Placards Required: None

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Not hazardous

SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None.

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

CALIFORNIA PROPOSITION 65: No listed chemicals.

This product is not hazardous in accordance with OSHA HAZCOM 2012, GHS and WHMIS 2015.

SECTION 16: OTHER INFORMATION

Revision Summary: New format to comply with OSHA Hazcom 2012

SDS Date of Preparation/Revision: 5/6/2015

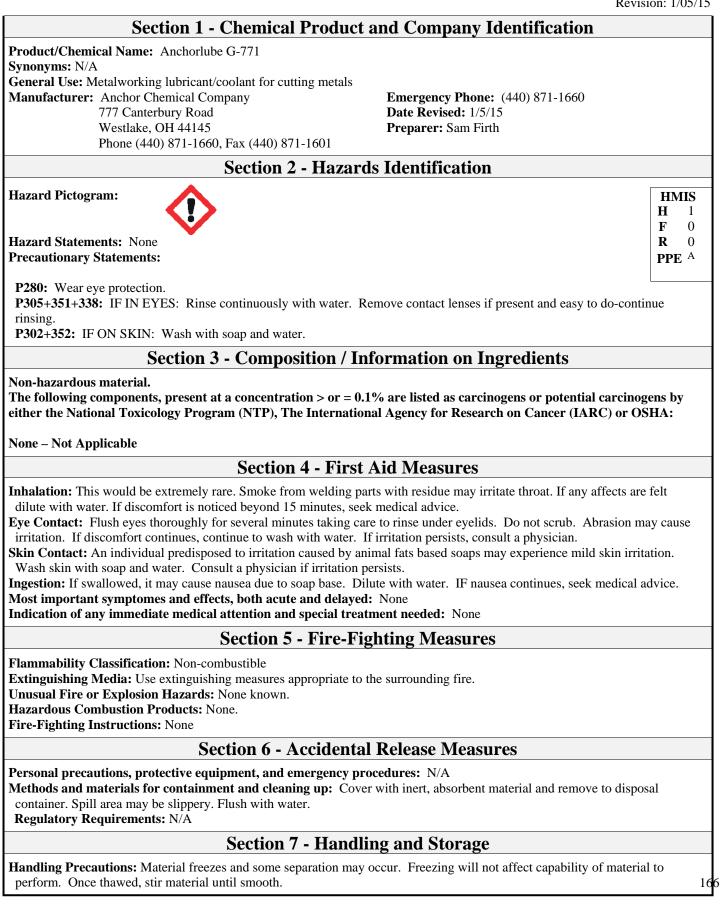
Disclaimer: Information contained herein is presented in good faith and is based on data believed to be accurate. However no warranty is expressed or implied regarding this information or the results obtained from the use of this Safety Data Sheet, whether it originates with Anchor Chemical name or others. This Safety Data Sheet relates only to the specific material designated herein. It does not relate to use with other material or processes. This information is supplied with the condition that the user will make appropriate determination as to its suitability for their purpose prior to using it.

Safety Data Sheet

Anchorlube G-771

SDS No. 771.14

Revision: 1/05/15



Storage Requirements: Store at room temperature (40-100 degrees f).

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source. **Administrative Controls:**

Protective Clothing/Equipment: Wear tightly fitting safety goggles or safety glasses.

Contaminated Equipment: Clean equipment with water. Contaminated clothing may be washed with regular street clothes. **Comments:** Treat this product as you would other animal fat based soaps. Easily cleaned with soapy water and comes of clothing as simple as other soaps.

Section 9 - Physical and Chemical Properties

Physical State: Semi Paste
Appearance and Odor: Green Semi Paste
with slight almond odor
Odor Threshold: n/e
Vapor Pressure: n/a
Vapor Density (Air=1): n/d
Formula Weight: n/a
Density: 8.51 Lb/Gal
Specific Gravity (H2O=1, at 4 °C): 1.0365
pH: 6.0-6.5
Flash Point: >
Flash Point Method: Not flammable.
Burning Rate: Does not burn.
Auto-ignition Temperature: Does not ignite.
Explosive properties: Non-explosive.

Water Solubility: Dispersible Boiling Point: F: 225 C: 107.22 Freezing/Melting Point: 0 C/32 C Refractive Index: n/a Surface Tension: n/a % Volatile: n/a Evaporation Rate: n/a

Section 10 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions. **Polymerization:** Hazardous polymerization cannot occur.

Chemical Incompatibilities: Avoid Magnesium as it is water based.

Reactivity with Heat: When exposed to fire or heat, Anchorlube loses its water and dries out leaving a waxy film. **Hazardous Decomposition Products:** None known.

Section 11- Toxicological Information

Toxicity Data:*

Eye: May cause irritation. **Skin:** May cause irritation. **Ingestion:** Unlikely. Acute Oral Effects: None known. Chronic Effects: None known. Carcinogenicity: Neither this product nor any of its components are considered carcinogenic by OSHA, IARC, NTP, or ACGIH. Contains no oil, silicone, sulfur, chlorine or vocs.

Section 12 - Ecological Information

Not known.

Persistence and degradability: Product is biodegradable. Sealed shelf life is a minimum of two years. Unsealed will begin to legrade rapidly.

Bioaccumulative potential: Not applicable

Revision date 1/05/15

Anchorlube G

Mobility in soil: Not applicable.

Section 13 - Disposal Considerations

Disposal: This substance is inert and does not require special disposal methods. Small amounts may be flushed into sanitary sewer. Large amounts follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data: This product is not classified as dangerous under the transport regulations for road, rail, sea, or air transport.

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: (40 CFR 261.33): Not listed RCRA Hazardous Waste Classification (40 CFR 261): Not classified CERCLA Hazardous Substance (40 CFR 302.4) Not listed SARA Toxic Chemical (40 CFR 372.65): Not listed SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed SHA Regulations:

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed OSHA Specifically Regulated Substance (29CFR 1910): Not Listed

All ingredients in this product are listed on the TSCA inventory or are not required to be listed on the TSCA inventory.

International Regulations:

Regulation (EC) No 2037/2000 (Ozone Depleting Substances); Not applicable Regulation (EC) No 850/2004 (Persistant Organic Pollutants): Not applicable Regulation (EC) No 689/2008 (Export and Import of Dangerous Substances): Not applicable Directive 2002/95/EC (RoHS): Not applicable Directive 2002/96/EC (WEEE): Not applicable Directive 1999/13/EC (VOC): Not applicable Restirctions according to TITLE VIII of the Regulation (EC) No 1907/2006 (REACH): None

S-phrases: S39: Wear eye protection.

RoHS: Not applicable

Section 16 - Other Information

Prepared By: Sam Firth **Revision Notes:** Updated to GHS

Disclaimer: Information contained herein is presented in good faith and is based on data believed to be accurate. However no warranty is expressed or implied regarding this information or the results obtained from the use of this Safety Data Sheet, whether it originates with Anchor Chemical name or others. This Safety Data Sheet relates only to the specific material designated herein. It does not relate to use with other material or processes. This information is supplied with the condition that the user will make appropriate determination as to its suitability for their purpose prior to using it.



Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name ANSUL ABC Multipurpose Dry Chemical Agent - Stored Pressure System

1. Identification		
1.1. Product Identifier Product name	ier ANSUL ABC Multipurpose Dry Chemical Agent - Stored Pressure System	
1.2. Other means of identification Product code UN/ID no Synonyms Chemical Family	435028 UN1044 None No information available	
1.3. Recommended use of the chemical and restrictions on use Recommended use No information available. Uses advised against Consumer use.		
1.4. Details of the Supplier of the Sa Company Name Contact point E-mail address	afety Data Sheet Tyco Fire Protection Products One Stanton Street Marinette, WI 54143-2542 Telephone: 715-735-7411 Product Stewardship at 1-715-735-7411 psra@tycofp.com	
1.5. Emergency Telephone Number Emergency telephone	 CHEMTREC 001-800-424-9300 or 001-703-527-3887	
2. Hazards Identification		

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Simple asphyxiants Gases Under Pressure - Compressed Gas

2.2. Label Elements

Signal Word WARNING

Hazard Statements

May displace oxygen and cause rapid suffocation Contains gas under pressure; may explode if heated





Product name ANSUL ABC 1 Multipurpose Dry Chemical Agent -Stored Pressure System

Precautionary Statements

Storage Protect from sunlight. Store in a well-ventilated place.

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2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

2.4. Other Information

3. Composition/information on Ingredients

<u>3.1. Mixture</u> The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
Attapulgite	12174-11-7	1 - 5
Calcium carbonate	471-34-1	1 - 5

4. First aid measures

4.1. Description of first aid measures			
General Advice	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.		
Skin contact	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.		
Inhalation	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.		
Ingestion	If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.		
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.		
4.2. Most Important Symptoms and Symptoms	<u>d Effects, Both Acute and Delayed</u> None known.		
4.3 Indication of Any Immediate M	edical Attention and Special Treatment Needed		

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed Note to physicians Keep victim warm and quiet.

5. Fire-fighting measures

5.1. Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO2. Water spray, fog or regular foam.



Product name ANSUL ABC / Multipurpose Dry Chemical Agent -Stored Pressure System

5.2. Unsuitable Extinguishing Media

None.

5.3. Specific Hazards Arising from the Chemical

Ruptured cylinders may rocket. Some may burn but none ignite readily.

1

5.4. Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters

Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

6.	Accidental	release	measures
•	Accidental	I CICUSC	incusui cs

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions	Do not touch or walk through spilled material. Stop leak if you can do it without risk.
OTHER INFORMATION	Ventilate the area.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental Precautions	
Environmental Precautions	Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.
6.3. Methods and material for conta	ainment and cleaning up
Methods for Containment	If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.
Methods for Cleaning Up	Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.
7. Handling and Storage	

7.1. Precautions for Safe Handling

Advice on safe handling Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. Use personal protective equipment as required. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a well-ventilated place. Keep cool. Keep container tightly closed. Guard against dust accumulation of material. Use care in handling/storage. Pressurized extinguishers



Product name ANSUL ABC / Multipurpose Dry Chemical Agent -Stored Pressure System

should be properly stored and secured to prevent falling or being knocked over.

Incompatible Materials

Strong acids.

/

8. Exposure Controls/Personal Protection

8.1. Control Parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
Attapulgite	TWA: 1 mg/m ³ respirable	-	-	-
12174-11-7	particulate matter			
Calcium carbonate	-	-	TWA: 10 mg/m ³ total dust	-
471-34-1			TWA: 5 mg/m ³ respirable	
			dust	

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor): NIOSH IDLH Immediately Dangerous to Life or Health

8.2. Appropriate Engineering Controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.	
8.3. Individual protection measures	s, such as personal protective equipment	
Eye/Face Protection	Avoid contact with eyes. Tight sealing safety goggles.	
Skin and Body Protection	No special precautions are needed in handling this material.	
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Ventilation	Use local exhaust or general dilution ventilation to control exposure with applicable limits	

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State Odor Odor Threshold	powder odorless No data available	Color	Yellow
Property	<u>Values</u> No data available	Remarks • Method	
pH			
Melting point/freezing point	No data available		
Boiling point / boiling range	No data available		
Flash Point	No data available		
Evaporation Rate	No data available		
Flammability (solid, gas)	No data available		
Flammability limit in air			
Upper flammability limit: Lower flammability limit:	No data available No data available		



Product code 435028

Product name ANSUL ABC / Multipurpose Dry Chemical Agent -Stored Pressure System

Vapor Pressure Vapor Density Specific gravity Water Solubility Solubility in Other Solvents Partition coefficient Autoignition Temperature Decomposition Temperature Kinematic viscosity No data available No data available

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10. Stability and Reactivity

10.1. Chemical Stability

Stable under recommended storage conditions.

10.2. Reactivity No data available

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid

None known based on information supplied.

10.5. Incompatible Materials

Strong acids.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

11. Toxicological Information

11.1. Information on Likely Routes of Exposure

Product information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	May cause irritation.
Skin contact	May cause irritation.
Ingestion	Ingestion may cause irritation to mucous membranes.
Component Information Acute Toxicity	



Product name ANSUL ABC / Multipurpose Dry Chemical Agent -Stored Pressure System

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium carbonate	= 6450 mg/kg (Rat)	-	-
471-34-1			

11.2. Information on Toxicological Effects

Symptoms

Carcinogenicity

No information available.

/

<u>11.3.</u> Delayed and immediate effects as well as chronic effects from short and long-term exposure

Attapulgite (palygorskite fibers) is a hydrated magnesium aluminum silicate. Long palygorskite (attapulgite) fibers (>5 micrometers) are possibly carcinogenic to humans (Group 2B). Short palygorskite (attapulgite) fibers (<5 micrometers) cannot be classified as to their carcinogenicity to humans (Group 3). The attapulgite present in this product contains fibers 0.5-2.5 um range, so would be considered by IARC as Group 3. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

Chemical name	ACGIH	IARC	NTP	OSHA
Attapulgite	-	Group 3	-	Х
12174-11-7				

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Reproductive Toxicity STOT - Single Exposure STOT - Repeated Exposure Target organ effects Aspiration Hazard No information available. No information available. No information available. Eyes, Respiratory System, Skin. No information available.

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (dermal)8156 mg/kg

12. Ecological Information

12.1. Ecotoxicity

Not classified.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ammonium sulfate, technical	-	LC50 96 h 460 - 1000 mg/L	LC50 48 h = 14 mg/L Daphnia
7783-20-2		Leuciscus idus static; LC50 96 h	magna; EC50 24 h = 423 mg/L
		123 - 128 mg/L Poecilia reticulata	Daphnia magna
		semi-static; LC50 96 h = 126 mg/L	
		Poecilia reticulata; LC50 96 h > 100	
		mg/L Pimephales promelas; LC50	
		96 h 32.2 - 41.9 mg/L	
		Oncorhynchus mykiss flow-through;	
		LC50 96 h 5.2 - 8.2 mg/L	
		Oncorhynchus mykiss static; LC50	
		96 h = 18 mg/L Cyprinus carpio;	
		LC50 96 h = 480 mg/L Brachydanio	
		rerio flow-through; LC50 96 h = 420	
		mg/L Brachydanio rerio semi-static;	
		LC50 96 h = 250 mg/L Brachydanio	
		rerio	
Silicic Acid/silica gel, Amorphous	EC50 (72h) = 440 mg/L	LC50 (96h) static = 5000 mg/L	EC50 (48h) = 7600 mg/L



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Product name ANSUL ABC / Multipurpose Dry Chemical Agent -Stored Pressure System

r			
7631-86-9	Pseudokirchneriella subcapitata	Brachydanio rerio	Ceriodaphnia dubia
	· · · · · · · · · · · · · · · · · · ·		•

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Other Adverse Effects

No information available

13. Disposal Considerations	
<u>13.1. Waste Treatment Methods</u> Disposal of wastes	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated Packaging	Do not reuse container. Pressurized container: Do not pierce or burn, even after use.
14 Transport Information	

14. Transport Information

DOT UN/ID no Proper Shipping Name Description Hazard class Special Provisions Emergency Response Guide Number	UN1044 Fire extinguishers UN1044, Fire extinguishers, 2.2 2.2 18, 110 126
<u>TDG</u> UN/ID no Description Proper Shipping Name Hazard class	UN1044 UN1044, Fire extinguishers, 2.2 Fire extinguishers 2.2
<u>MEX</u> UN/ID no Description Proper Shipping Name Hazard class	UN1044 UN1044, Fire extinguishers, 2.2 Fire extinguishers 2.2
ICAO (air) UN/ID no Description	UN1044 UN1044, Fire extinguishers, 2.2



Product code 435028

Product name ANSUL ABC / Multipurpose Dry Chemical Agent -Stored Pressure System

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Proper Shipping Name	Fire extinguishers
Hazard class	2.2
Special Provisions	A19

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<u>IATA</u>

UN/ID no	UN1044
Description	UN1044, Fire extinguishers, 2.2
Proper Shipping Name	Fire extinguishers
Hazard class	2.2
ERG Code	2L
Special Provisions	A19

IMDG

DG	
UN/ID no	UN1044
Description	UN1044, Fire extinguishers, 2.2
Proper Shipping Name	Fire extinguishers
Hazard class	2.2
EmS-No	F-C, S-V
Special Provisions	225

15. Regulatory Information

15.1. International InventoriesTSCACompliesDSL/NDSLCompliesENCSDoes not complyIECSCCompliesKECLDoes not complyPICCSCompliesAICSComplies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 $\ensuremath{\mathsf{DSL/NDSL}}$ - Canadian Domestic Substances List/Non-Domestic Substances List

 $\ensuremath{\text{ENCS}}$ - Japan Existing and New Chemical Substances

- **IECSC** China Inventory of Existing Chemical Substances
- **KECL** Korean Existing and Evaluated Chemical Substances
- PICCS Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Ammonium dihydrogen phosphate - 7722-76-1	1.0
Ammonium sulfate, technical - 7783-20-2	1.0
SARA 311/312 Hazard Categories	
Acute Health Hazard	No
Chronic health hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No



Product name ANSUL ABC / Multipurpose Dry Chemical Agent -Stored Pressure System

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

15.3. US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

1

Chemical name	California Proposition 65	
Attapulgite - 12174-11-7	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Silicic Acid/silica gel, Amorphous 7631-86-9	-	Х	Х
Magnesium carbonate 546-93-0	Х	Х	-

16. Other information, including date of preparation of the last revision

<u>NFPA</u>	Health Hazards 0	Flammability 0	Instability 0	Physical and chemical properties -
HMIS	Health Hazards 0	Flammability 0	Physical Hazards 3	Personal Protection X

Revision date 13-Feb-2019

Revision note No information available.

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

MATERIAL SAFETY DATA SHEET

	MATERIAL S.				
This MSDS complies with OSHA'S Hazard C			CFR 1910, 120	00 and OSHA Form 174	
NFPA Rating: Health-2; Flammability-3; Reactivity-0 Manufactured for: Adhesive Products Company 9635 Park Davis Drive	D	MIS Rating: H OT Hazard Cla	ssification: ORM-	ity-3; Reactivity-0; Personal Protection-B D FORMANCE SPRAY ADHESIVE	
Indianapolis, IN 46236 Phone #317-899-0565		ate Prepared: 1		d By: DR	
Emergency Response Number: #800-255-3924			317-899-0565		
SECTION 1 - MA					
COMPONENTS-CHEMICAL NAMES CAS No (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	umber SARA 111 list	OSHA PEL (ppm)		Carcinogen 1) Ref. Source*	
	-64-1 NO	1000	750	D*	
	-82-5 NO	500	400 800	D* D*	
	-28-5 NO -98-6 NO	800 1000	800 1000	D*	
SECTION 2 - P Boiling Point: N/A					
Boling Point: N/A Vapor Pressure: PSIG @ 70 F (Aerosols): Max 80 Vapor Density (Air = 1): N/E Solubility in Water: Partial Volitile Organic Compound = 54.90% by weight	Vapor Pres Evaporatio Water Read	ssure (Non-Aeron Rate(=1): ctive: No			
	FIRE AND EX	PLOSION	HAZARD DA	ТА	
(aerosols) EXTREMELY FLAMMABLE	FLASH POINT AND METHOD USED (non-aerosols): N/A SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus. Use water fog to cool containers to prevent rupturing &				
dioxide, water.	-	-	-		
UNUSUAL FIRE & EXPLOSION HAZARDS: Do no				ontainer may rupture.	
	- REACTIVIT				
Incompatibility (Mat. to avoid): Strong oxidizing agent	STABILITY [X] STABLE [] UNSTABLE HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR Incompatibility (Mat. to avoid): Strong oxidizing agents Conditions to avoid: Open flame, welding arcs, heat, sparks. Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.				
, SECTION	5 - HEALTH H	AZARD DA	ТА		
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [X] SKIN ABSORPTION [] EYE [] NOT HAZARDOUS ACUTE EFFECTS Inhalation: Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation Eye Contact: Irritation Skin Contact: Irritation due to defatting of skin Ingestion: Possible chemical pneumonitis if aspirated into lungs.					
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture). Excessive inhalation of solvents may cause Brain and other nervous system damage.					
Medical Conditions Generally Aggravated by Exposu			in, or upper respira	tory conditions.	
	EMERGENCY FIRST AID PROCEDURES				
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention. Skin Contact: Wash with soap and water. If irritated, seek medical attention. Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention. Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.					
SECTION 6 - CON	NTROL AND P	ROTECTI	E MEASURE	CS	
Respiratory Protection (specific type): If vapor conce Protection Gloves: Neoprene		V, use respirato	r approved by NIO		
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.					
Other Protective Clothing & Equipment: None Hygienic Work Practice: Wash with soap and water before handling food. Remove contaminated clothing.					
	SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE				
Steps to be taken if material is spilled or Released: Absorb with suitable medium. Incinerate or landfill according to local, state, or federal regulations. DO NOT FLUSH TO SEWER. Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard. Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130 F Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. Remove ignition sources.					
We believe the statements, technical information and rec	commendations conta	inad harain are	reliable but they a	ra givan without warranty or	

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. *Chemical Listed as Carcinogen or Potential Carcinogen. [a]NTP [b]ARC Monograph [c]OSHA [d]NOT LISTED [e]animal data only

Infosafe No™	LQ3HB Issue Date October 2019 ISSUED by MILL-ROSE
Product Name	Blue Monster PTFE Thread Seal Tape
1. Identification	- · · ·
GHS Product Identifier	Blue Monster PTFE Thread Seal Tape
Company Name	Mill-Rose
Address	7310 Corporate Blvd
	Mentor,
	Ohio 44060
Telephone/Fax	USA Tel: (440)9746730
Number	Fax: (440)2551072
Recommended use of	Industrial tape.
the chemical and	
restrictions on use	
2. Hazard Identific	ation
	Not classified as Hazardous according to the Globally Harmonised System
substance or mixture	of Classification and labelling of Chemicals (GHS) including Work, Health
	and Safety regulations , Australia.
	Not classified as Dangerous Goods according to the Australian Code for
	the Transport of Dangerous Goods by Road and Rail. (7th edition)
Composition/information	mation on ingredients
Information on	This product contains the following
Composition	ingredients: -Polytetrafluoroethylene
	-Distillates (petroleum), hydrotreated light -Pigment
ngredients	Name CAS <u>Proportion</u>
	Ingredients determined 100%
	not to be hazardous
<u>4.</u> First-aid measur	es
Inhalation	Not considered a potential route of exposure. However, if inhaled, remove
	affected person from contaminated area. Keep at rest until recovered. If
r	symptoms develop and/or persist seek medical attention .
Ingestion	Unlikely due to form of product. However, if ingested, do not induce vomiting.
	Wash out mouth thoroughly with water. If symptoms develop seek medical attention.
Skin	Wash affected area thoroughly with soap and water. If symptoms develop seek
	medical attention.
Eye contact	Not considered a potential route of exposure. However if in eyes, hold eyelids
	apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If
	symptoms develop and persist seek medical attention.
First Aid Facilities	Eyewash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre (Phone:
into muton	Australia 131 126) or a doctor.
5. Fire-fighting me	
	Use carbon dioxide, dry chemical or foam.
	ose carbon atortae, ary chemical of roam.
extinguishing	Under fire conditions this product may emit toxic and/or irritating fumes,
Suitable extinguishing media Hazards from Combustion	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, hydrogen
extinguishing media Hazards	
extinguishing media Hazards from Combustion Products	smoke and gases including carbon monoxide, carbon dioxide, hydrogen
extinguishing media Hazards from Combustion Products Specific hazards arising from the	smoke and gases including carbon monoxide, carbon dioxide, hydrogen fluoride and oxides of nitrogen.
extinguishing media Hazards from Combustion Products Specific hazards	smoke and gases including carbon monoxide, carbon dioxide, hydrogen fluoride and oxides of nitrogen.

Decomposition Temp.

Precautions inFire fighters should wear Self-Contained Breathing Apparatus (SCBA) operatedconnection with Firein positive pressure mode and full protective clothing to prevent exposure
to vapours or fumes. Water spray may be used to cool down heat-exposed

	Safety Data Sheet		
	Page: 2 of 5		
Infosafe No™	LQ3HB Issue Date October 2019 ISSUED by MILL-ROSE		
Product Name	Blue Monster PTFE Thread Seal Tape		
6. Accidental releas	containers . Fight fire from safe location. This product shouldbe prevented from entering drains and watercourses.		
Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Collect the material and place into a suitable labelled container. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.		
7. Handling and stora	ge		
Precautions for Safe Handling	Avoid exposure. Use only in a well ventilated area. Keep containers tightly closed. Prevent the build up of dusts, mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.		
Conditions for safe storage, including any incom patabilities Handling	e, including any storage conditions comply with applicable local and national regulations.		

8. Exposure controls/personal protection

+260°C Store below 260°C.

Temperatures Storage

Temperatures

Occupational	No exposure value assigned for this material by Safe Work, Australia. However,			
exposure limit values	the available exposure limits for decomposition products are given below:			
	Safe Work, Australia Exposure Standards:			
	Substance TWA STEL NOTICES ppm mg/m³ ppm mg/m³			
	Hydrogen fluoride 3 2.6 Peak Limitation			
Biological Limit Values Appropriate	<pre>TWA (Time Weighted Average) The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. No biological limits allocated. Use with good general ventilation.</pre>			
engineering controls Respiratory	None required, when used as intended.			
Protection Eye Protection	None required, when used as intended.			
Hand Protection	None required, when used as intended.			
Body Protection	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended.			

9. Physical and chemical properties

Appearance	Solid polymeric film
Colour	Blue
Odour	Odourless
Decomposition Temperature	Not available

CS:1.9.22

Safety Data Sheet

Infosafe No™	LQ3HB	Issue Date	October 2019	ISSUED by MILL-ROSE
Product Name	Blue Monster P	IFE Thread Seal	Таре	
Melting Point	Not available			
Boiling Point	Not available			
Solubility in Water	Insoluble			
Specific Gravity	2.1			
рН	Not applicable			
Vapour Pressure	Not applicable			
Vapour Density (Air=l)	Not available			
Evaporation Rate	Not available			
Odour Threshold	Not available			
Viscosity	Not applicable			
Partition Coefficient: n-octanol/water	Not available			
Flash Point	Not applicable			
Flammability	Not flammable			
Auto-Ignition Temperature	Not self ignitin	g		
Explosion Limit • Upper	Not applicable			
Explosion Limit • Lower	Not applicable			

<u>10.</u> Stability and reactivity

Reactivity	Reacts with incompatible materials.
Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat and sources of ignition. Temperatures >260°C without adequate ventilation.
Incompatible	Strong oxidising agents. Alkali metals, extremely potent oxidisers e.g.
Materials	fluorine , chlorine tri-fluoride, 80% NaOH or KOH, metal hydrides such as boranes (e.g. B2H6) aluminium chloride, ammonia, certain amines (R-NH2) imines (RH-NH) and 70% nitric acid at temperatures near 260°C. Do not use on oxygen lines.
Hazardous	Thermal decomposition may result in the release of toxic and/or
Decomposition	irritating fumes including carbon monoxide, hydrogen fluoride and carbon
Products	dioxide. Carbonyl fluoride is the main decomposition product formed when PTFE is subjected to extended exposure at normal sintering temperatures (400°C). Carbonyl fluoride is immediately converted to highly corrosive hydrogen fluoride in the presence of moist air.
Possibility of	Reacts with incompatible materials.
hazardous reactions	

<u>11.</u> Toxicological Information

Toxicology	No toxicology data available for this product.
Information	No toxicity was observed in male/female rats fed PTFE (up to 25%) for 90 days. Local sarcomas were induced in mice and rats implanted subcutaneously or intraperitoneally with PTFE. However, this is not considered relevant to normal industrial usage.
Ingestion	Ingestion unlikely due to form of product. Ingestion of this product may irritate the gastric tract causing nausea and vomiting .
Inhalation	No adverse effects expected. The material is not normally an inhalation hazard at temperatures below 260°C as it remains an inert solid. However, exposure to thermal degradation products at temperatures above 260°C or fumes from tobacco contaminated with particles of the product may result in polymer fume fever or influenza-like symtoms (chills, headaches, difficulty in breathing and fever)
	Symptoms may appear several hours after exposure but will disappear within

Safety Data Sheet

CS: 1. 9 . 22

Page: 4 of 5

Infosafe No™	LQ3HB	Issue Date	October 2019	ISSUED by MILL-ROSE

Product Name Blue Monster PTFE Thread Seal Tape

Skin	24-48 hours . There are exposure standards for decomposition products. May be irritating to skin. The symptoms may include redness, itching and swelling.
Eye	Eye contact may cause mechanical irritation. May result in mild abrasion.
Respiratory sensitisation Skin	Not expected to be a respiratory sensitiser.
Sensitisation	Not expected to be a skin sensitiser.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Polytetrafluoroethylene is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).
Reproductive Toxicity STOT [.]	Not considered to be toxic to reproduction.
single exposure	Not expected to cause toxicity to a specific target organ.
STOT-repated	Not expected to cause toxicity to a specific target organ.
exposure Aspiration Hazard	Not considered to be an aspiration hazard.

12. Ecological information

No ecological data are available for this material.
Not available
Not available
Not available
Not available
Prevent this material entering waterways, drains and sewers.

13. Disposal considerations

Disposal	The disposal of the spilled or waste material must be done in accordance with
Considerations	applicable local and national regulations.
1.1	

<u>14.</u> Transport information

Transport	Road and Rail Transport				
Information	Not classified as Dangerous Goods according to the Australian Code for the				
	Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).				
	Marine Transport (IMO/IMDG): Not classified as Dangerous Goods by the criteria of the International				
	Maritime Dangerous Goods Code (IMDG Code) for transport by sea.				
	Air Transport (ICAO/IATA):				
IMDG Marine pollutant	Not classified as Dangerous Goods by the criteria of the International Air				
	Transport Association (IATA) Dangerous Goods Regulations for transport by air. No				
<u>15.</u> Regulatory in	formation				
Regulatory	Not classified as Hazardous according to the Globally Harmonised System				
Information	of Classification and labelling of Chemicals (GHS) including Work, Health				

Information	of classification and labelling of chemicals (GHS) including work, Health
	and Safety regulations, Australia.
	Not classified as a Scheduled Poison accord ing to the Standard for the
	Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	Not Scheduled

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Safety Data Sheet

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Infosafe No™ LQ3HB Issue Date October 2019 ISSUED by MILL-ROSE

Product Name Blue Monster PTFE Thread Seal Tape



Cold Fire is an environmentally friendly fire suppressing agent, specially designed to rapidly suppress and extinguish fires, cool down hot surfaces, prevent re-ignition and encapsulate hydrocarbons. Cold Fire is PFAS free, safe to store, handle and use, leaves virtually no residue and is non-toxic, non-corrosive and biodegradable.

Section 1: Identification

Manufacturer: Firefreeze Worldwide, Inc. Address: 272 Route 46 East, Rockaway, NJ 07866 Phone: 973-627-0722; Fax: 973-627-2982 Email: info@firefreeze.com

Product/Trade Name: Cold Fire

Chemical Identifier: CF-302

Product Usage: UL Listed Wetting Agent for Class A & B fires.

Can be used for Class D, K and C fires with appropriate extinguishing application & equipment.

*International Certifications: See regulatory information Section 15.

In emergency call 911.

For information about this SDS, contact phone#: 973-627-0722 or email info@firefreeze.com

Section 2: Hazard(s) Identification

Hazardous Materials Identification System:

Health: 0

Flammability: 0 Reactivity: 0

Personal Protection: 0

Product may be slippery in concentrate form.

No components are believed to be hazardous or listed in the NIOSH Recommendations for Occupational Safety and Health Standards, 1988, or are listed by SARA, CERCLA, or RCRA. No OSHA PEL's are established for any of the proprietary ingredients.

Section 3: Composition/ Information on Ingredients

Formulation is proprietary and components are classified trade secret. A proprietary environmentally friendly formulation consisting of water, biodegradable anionic and nonionic surfactants, organic compounds and minerals that have been tested PFAS (Perfluoroalkyl and polyfluoroalkyl substances) free. Cold Fire is clear in composition and has a clean, fresh smell.

Section 4: First-Aid Measures

After skin contact: Rinse skin with water. After eye contact: Immediately flush eyes with water. After inhalation: Negligible. After swallowing: Do not swallow. Not considered to be orally toxic.



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Section 5: Fire-Fighting Measures

Non-Flammable: No hazardous combustion ingredients. Product is water based. Will not ignite.

Section 6: Accidental Release Measures

Spill/leak procedure: Rinse affected area with water and dry.

Measures for environmental disposal: Dispose of as non-hazardous waste in accordance with local regulations. PFAS free.

Section 7: Handling and Storage

Handling:

Respiratory Protection: not required.

Ventilation: under ordinary/normal conditions for intended use, no special ventilation is required. **Protective gloves:** wear if there is prolonged skin contact as natural surfactants can dry skin. **Eye Protection:** wear if needed to prevent reasonable probability of eye contact.

Storage: Store in temperatures between 32°F to 120°F in closed containers to prevent evaporation and/or deterioration. Freezing will not damage material as long as container remains intact.

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: Wash hands prior and after handling as per general hygiene measures. No special protective equipment required.

Section 9: Physical and Chemical Properties

Form: Clear, surfactant blend wetting agent
Odor: fresh, clean smell
pH: 6.3 in concentrate form. Neutral when diluted.
Vapor pressure: same as water
Specific Gravity: 1.02 @ 60 degrees Fahrenheit
Solubility in/Miscibility with water: 100%; soluble
Viscosity: 71 (centipoises)
Surface Tension: 30.2 dyne/cm (concentrate)

Section 10: Stability and Reactivity

Reactivity: none

Incompatibility: none Chemical stability: Product is stable

Corrosion: Product is non-corrosive. Tested in accordance with DOT standard 49 CFR 173.136 **Separation Temperature:** No separation when stored between 32°F and 120°F **Separation on Standing:** No separation when standing

Hazardous decomposition products: Carbon monoxide and carbon dioxide

Section 11: Toxicological Information

Toxicity: In accordance with US EPA Office of Pollution Prevention and Toxics criteria for ranking the acute toxicity of chemicals in the aquatic environment, Cold Fire is considered to be of low concern.

-96 hour acute toxicity versus freshwater algae (selenastrum capricornutum) IAW 40 CFR 797.1050 showed Cold Fire was algicidal at concentrations above 750 ppm.
-96 hour acute toxicity versus juvenile rainbow trout (oncorhynchus mykiss) IAW 49 CFR 797. 1400 showed an LC50 of 105 ppm.



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Section 12: Ecological Information (non-mandatory)

Biodegradability: Product is 100% biodegradable in an active environment within 21 days. **Product is PFAS free.**

Section 13: Disposal Considerations (non-mandatory)

Dispose of as non-hazardous waste in accordance with local regulations.

Section 14: Transport Information (non-mandatory)

NMFC Code: 69160 US DOT Hazard Class: Not regulated by DOT US DOT Identification Number: Not applicable

Section 15: Regulatory Information (non-mandatory)

-UL Listed Wetting Agent for Class A & B Fires. Tested in accordance with NFPA 18 Wetting Agents, UL 162 and UL 711.

-ULC (Canada) Listed Wetting for Class A & B Fires. C-175

-EPA-SNAP listed as an alternative to halon for fire suppression.

-PFAS free

*International:

Chile: tested and certified for Class A, B, C, D & K as per CESMEC

Section 16: Other Information

SDS date of preparation/update: August 10, 2020



SAFETY DATA SHEET

CPI CP-Moly 1500 Chain & Cable Apr 01, 2015

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID :	CPI CP-Moly 1500 Chain & Cable		
Product Name :	CPI CP-Moly 1500 Chain & Cable		
Revision Date :	Apr 01, 2015	Date Printed :	May 01, 2015
Version:	1.0	Supersedes Date	: N.A.
Distributor's Name :	CORRELATED PRODUCTS, INC.		
Address :	5616 PROGRESS ROAD - INDIANAPOLIS, IN 4	6241 USA	
Emergency Phone :	1-800-535-5053		
Information Phone :	(317) 243-3248		
Fax :			

Product/Recommended Uses: Chain and Cable Lube

SECTION 2) HAZARDS IDENTIFICATION

Classification:

Aerosol - Category 1

Pictograms:



Signal Word:

Warning

Hazardous Statements - Physical:

H222, H229 - Extremely flammable aerosol, Pressurized container may burst if heated

Precautionary Statements - General:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

Precautionary Statements - Prevention:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:

No precautionary statement available.

Precautionary Statements - Storage:

P410 - Protect from sunlight.

P412 - Do not expose to temperatures exceeding 50°C/122°F.

Precautionary Statements - Disposal:

No precautionary statement available.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS				
CAS	Chemical Name	% by Weight		
0064742-65-0	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC	49% - 86%		
0000074-98-6	PROPANE	6% - 13%		
0000106-97-8	BUTANE	3% - 7%		
0000075-28-5	ISOBUTANE	2% - 4%		
0001317-33-5	MOLYBDENUM (IV) SULFIDE	0.1% - 1.9%		
OFOTION A) FIDOT A				

SECTION 4) FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact:

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use water, fog, dry chemical, or carbon dioxide.

Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media:

Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.

Aerosol cans may rupture when heated. Heated cans may burst.

In fire, will decompose to carbon dioxide, carbon monoxide

Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA)and full turnout gear.

Care should always be exercised in dust/mist areas.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

Flammable/combustible material.

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas. Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus(SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7) HANDLING AND STORAGE

General:

For industrial and institutional use only.

For use by trained personnel only.

Keep away from children.

Wash hands after use.

Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

Store at temperatures below 120°F.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:

Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection:

Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA- Tables- Z1,2,3	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
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BUTANE						800	1900		
ISOBUTANE						800	1900		
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC	500	2000		1					
MOLYBDENUM (IV) SULFIDE		5							
PROPANE	1000	1800		1		1000	1800		

Chemical Name	ACGIH	ACGIH	ACGIH	ACGIH
	TWA (ppm)	TWA (mg/m3)	STEL (ppm)	STEL (mg/m3)
BUTANE	1000			
ISOBUTANE	1000			
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC				
MOLYBDENUM (IV) SULFIDE		[0.5 (R)]; [10 (I), 3 (R)];		
PROPANE	See Appendix F: Minimal Oxygen Content			

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

7.34401 lb/gal					
1.43203 lb/gal					
19.49926%					
1.43203 lb/gal					
171.60000 g/l					
1.43203 lb/gal					
171.60000 g/l					
N.A.					
Nil					
Flashpoint below 73 °F					
N.A.					
N.A.					
N.A.					
1.9					
9.5					
N.A.					
Slower than ether					
or Density Slower than ether ezing Point N.A.					

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to Avoid:

High temperatures.

Incompatible Materials:

None known.

Hazardous Reactions/Polymerization:

Will not occur.

Hazardous Decomposition Products:

In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:

Overexposure will cause defatting of skin.

Serious Eye Damage/Irritation:

Overexposure will cause redness and burning sensation.

Carcinogenicity:

No data available

Germ Cell Mutagenicity:

No data available

Reproductive Toxicity:

No data available

Respiratory/Skin Sensitization:

No data available

Specific Target Organ Toxicity - Single Exposure:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

No data available

Aspiration Hazard:

No data available

Acute Toxicity:

Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

0064742-65-0 MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC

LD50 (Rodent - rat, Oral) : >5000 mg/kg, Toxic effects : Details of toxic effects not reported other than lethal dose value. LD50 (Rodent - rabbit, Administration onto the skin) : 5000 mg/kg, Toxic effects : Details of toxic effects not reported other tha

0000075-28-5 ISOBUTANE

LC50 (mouse, inhalation): 520,000 ppm (52%); 2-hour exposure.(4)

0000106-97-8 BUTANE

LC50 (mouse): 202000 ppm (481000 mg/m3) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9) LC50 (rat): 276000 ppm (658000 mg/m3) (4-hour exposure); cited as 658 mg/L (4- hour exposure) (9)

Toxicity:

No data available.

Persistence and Degradability:

No data available.

Bio-Accumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

Bio-accumulative Potential

0064742-65-0 MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC

Contains constituents with the potential to bioaccumulate.

Mobility in Soil

0064742-65-0 MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

Consumer Commodity, ORM-D

IMDG Information:

Consumer Commodity, ORM-D

IATA Information:

Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

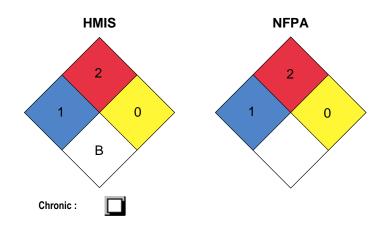
CAS	Chemical Name	% By Weight	Regulation List
0000074-98-6	PROPANE	6% - 13%	SARA312,VOC,TSCA,ACGIH,OSHA
0000075-28-5	ISOBUTANE	2% - 4%	SARA312,VOC,TSCA,ACGIH
0000106-97-8	BUTANE	3% - 7%	SARA312,VOC,TSCA,ACGIH
0001317-33-5	MOLYBDENUM (IV) SULFIDE	0.1% - 1.9%	SARA312,TSCA,ACGIH,OSHA
0064742-65-0	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT- DEWAXED HEAVY PARAFFINIC	49% - 86%	SARA312,TSCA,OSHA

SECTION 16) OTHER INFORMATION

Glossary:

* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

SAFETY DATA SHEET

CPI CP-Moly 1500 Chain & Cable Apr 01, 2015

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID :	CPI CP-Moly 1500 Chain & Cable		
Product Name :	CPI CP-Moly 1500 Chain & Cable		
Revision Date :	Apr 01, 2015	Date Printed :	May 01, 2015
Version:	1.0	Supersedes Date	: N.A.
Distributor's Name :	CORRELATED PRODUCTS, INC.		
Address :	5616 PROGRESS ROAD - INDIANAPOLIS, IN 4	6241 USA	
Emergency Phone :	1-800-535-5053		
Information Phone :	(317) 243-3248		
Fax :			

Product/Recommended Uses: Chain and Cable Lube

SECTION 2) HAZARDS IDENTIFICATION

Classification:

Aerosol - Category 1

Pictograms:



Signal Word:

Warning

Hazardous Statements - Physical:

H222, H229 - Extremely flammable aerosol, Pressurized container may burst if heated

Precautionary Statements - General:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

Precautionary Statements - Prevention:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:

No precautionary statement available.

Precautionary Statements - Storage:

P410 - Protect from sunlight.

P412 - Do not expose to temperatures exceeding 50°C/122°F.

Precautionary Statements - Disposal:

No precautionary statement available.

SECTION 3) COMPOS	SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS							
CAS	Chemical Name	% by Weight						
0064742-65-0	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC	49% - 86%						
0000074-98-6	PROPANE	6% - 13%						
0000106-97-8	BUTANE	3% - 7%						
0000075-28-5	ISOBUTANE	2% - 4%						
0001317-33-5	MOLYBDENUM (IV) SULFIDE	0.1% - 1.9%						
OFOTION A) FIDOT A								

SECTION 4) FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact:

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use water, fog, dry chemical, or carbon dioxide.

Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media:

Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.

Aerosol cans may rupture when heated. Heated cans may burst.

In fire, will decompose to carbon dioxide, carbon monoxide

Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA)and full turnout gear.

Care should always be exercised in dust/mist areas.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

Flammable/combustible material.

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas. Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus(SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7) HANDLING AND STORAGE

General:

For industrial and institutional use only.

For use by trained personnel only.

Keep away from children.

Wash hands after use.

Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

Store at temperatures below 120°F.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:

Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection:

Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA- Tables- Z1,2,3	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
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BUTANE						800	1900		
ISOBUTANE						800	1900		
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC	500	2000		1					
MOLYBDENUM (IV) SULFIDE		5							
PROPANE	1000	1800		1		1000	1800		

Chemical Name	ACGIH	ACGIH	ACGIH	ACGIH
	TWA (ppm)	TWA (mg/m3)	STEL (ppm)	STEL (mg/m3)
BUTANE	1000			
ISOBUTANE	1000			
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC				
MOLYBDENUM (IV) SULFIDE		[0.5 (R)]; [10 (I), 3 (R)];		
PROPANE	See Appendix F: Minimal Oxygen Content			

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	7.34401 lb/gal					
Density VOC	1.43203 lb/gal					
% VOC	19.49926%					
VOC Actual	1.43203 lb/gal					
VOC Actual	171.60000 g/l					
VOC Regulatory	1.43203 lb/gal					
VOC Regulatory	171.60000 g/l					
Appearance	N.A.					
Odor Threshold	N.A.					
Odor Description	N.A.					
pH	N.A.					
Water Solubility	Nil					
Flammability	Flashpoint below 73 °F					
Flash Point Symbol	N.A.					
Flash Point	N.A.					
Viscosity	N.A.					
Lower Explosion Level	1.9					
Upper Explosion Level	9.5					
Melting Point	N.A.					
Vapor Density	Slower than ether					
Freezing Point	N.A.					

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to Avoid:

High temperatures.

Incompatible Materials:

None known.

Hazardous Reactions/Polymerization:

Will not occur.

Hazardous Decomposition Products:

In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:

Overexposure will cause defatting of skin.

Serious Eye Damage/Irritation:

Overexposure will cause redness and burning sensation.

Carcinogenicity:

No data available

Germ Cell Mutagenicity:

No data available

Reproductive Toxicity:

No data available

Respiratory/Skin Sensitization:

No data available

Specific Target Organ Toxicity - Single Exposure:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

No data available

Aspiration Hazard:

No data available

Acute Toxicity:

Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

0064742-65-0 MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC

LD50 (Rodent - rat, Oral) : >5000 mg/kg, Toxic effects : Details of toxic effects not reported other than lethal dose value. LD50 (Rodent - rabbit, Administration onto the skin) : 5000 mg/kg, Toxic effects : Details of toxic effects not reported other tha

0000075-28-5 ISOBUTANE

LC50 (mouse, inhalation): 520,000 ppm (52%); 2-hour exposure.(4)

0000106-97-8 BUTANE

LC50 (mouse): 202000 ppm (481000 mg/m3) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9) LC50 (rat): 276000 ppm (658000 mg/m3) (4-hour exposure); cited as 658 mg/L (4- hour exposure) (9)

Toxicity:

No data available.

Persistence and Degradability:

No data available.

Bio-Accumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

Bio-accumulative Potential

0064742-65-0 MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC

Contains constituents with the potential to bioaccumulate.

Mobility in Soil

0064742-65-0 MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

Consumer Commodity, ORM-D

IMDG Information:

Consumer Commodity, ORM-D

IATA Information:

Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

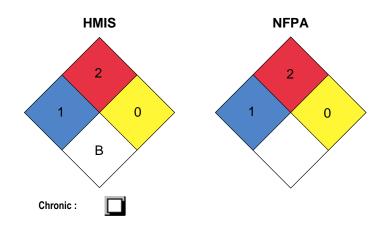
CAS	Chemical Name	% By Weight	Regulation List
0000074-98-6	PROPANE	6% - 13%	SARA312,VOC,TSCA,ACGIH,OSHA
0000075-28-5	ISOBUTANE	2% - 4%	SARA312,VOC,TSCA,ACGIH
0000106-97-8	BUTANE	3% - 7%	SARA312,VOC,TSCA,ACGIH
0001317-33-5	MOLYBDENUM (IV) SULFIDE	0.1% - 1.9%	SARA312,TSCA,ACGIH,OSHA
0064742-65-0	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT- DEWAXED HEAVY PARAFFINIC	49% - 86%	SARA312,TSCA,OSHA

SECTION 16) OTHER INFORMATION

Glossary:

* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

SDS DATE: 04/04/2013 REPLACES: 05/20/2011

SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD) IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: CROWN MEK (METHYL ETHYL KETONE) COMPANY IDENTITY: Packaging Service Co., Inc. COMPANY ADDRESS: 1904 Mykawa Road COMPANY CITY: Pearland, TX 77581 COMPANY PHONE: 1-281-485-5377 EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA) CANUTEC: 1-613-996-6666 (CANADA)



SECTION 2. HAZARDS IDENTIFICATION

DANGER!!

HAZARD STATEMENTS:

H100s = General, H200s = Physical, H300s = Health, H400s = Environmental

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H320 Causes eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = DisposalP210Keep away from heat/sparks/open flames/hot surfaces - No smoking.P280Wear protective gloves/protective clothing/eye protection/face protection.P403Store in a well-ventilated place.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT %
Methyl Ethyl Ketone	78-93-3	201-159-0	> 99

Trace components: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

SDS DATE: 04/04/2013 REPLACES: 05/20/2011

SECTION 4. FIRST AID MEASURES

GENERAL ADVICE:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

EYE CONTACT:

If this product enters the eyes, open eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. <u>Minimum</u> flushing is for 15 minutes. Seek immediate medical attention.

SKIN CONTACT:

If the product contaminates the skin, immediately begin decontamination with running water. <u>Minimum</u> flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, discard contaminated shoes.

INHALATION:

After high vapor exposure, remove to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR). Seek immediate medical attention. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SWALLOWING:

If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION PREVENTIVE MEASURES NO open flames, NO sparks, & NO smoking. Use a closed system, ventilation, explosion-proof electrical equipment, lighting.

EXTINGUISHING MEDIA Use dry powder, AFFF, foam, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

SDS DATE: 04/04/2013 REPLACES: 05/20/2011

SECTION 5. FIRE FIGHTING MEASURES (CONTINUED)

UNUSUAL EXPLOSION AND FIRE PROCEDURES

HIGHLY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:

Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

PERSONAL PROTECTIVE EQUIPMENT

The proper personal protective equipment for incidental releases (such as: 1 Liter of the product released in a well-ventilated area), use impermeable gloves (triple-gloves (rubber gloves and nitrile gloves, over latex gloves), goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.

ENVIRONMENTAL PRECAUTIONS:

Stop spill at source. Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

CONTAINMENT AND CLEAN-UP MEASURES:

Absorb spilled liquid with polypads or other suitable absorbent materials. If necessary, neutralize using suitable buffering material, (acid with soda ash or base with phosphoric acid), and test area with litmus paper to confirm neutralization. Clean up with non-combustible absorbent (such as: sand, soil, and so on). Shovel up and place all spill residue in suitable containers. dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13 - Disposal Considerations).

SECTION 7. HANDLING AND STORAGE

HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin & eyes. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

STORAGE

Keep in fireproof surroundings. Keep separated from strong oxidants, strong acids. Keep cool. Do not store above 49 C/120 F.

Keep container tightly closed & upright when not in use to prevent leakage.

SDS DATE: 04/04/2013 REPLACES: 05/20/2011

SECTION 7. HANDLING AND STORAGE (CONTINUED)

NONBULK: CONTAINERS:

Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Empty containers should be handled with care. Never store food, feed, or drinking water in containers which held this product.

BULK CONTAINERS:

All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this product. Report all leaks immediately to the proper personnel.

TANK CAR SHIPMENTS:

Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer's recommendation and all established on-site safety procedures. Appropriate personal protective equipment must be used (see Section 8, Engineering Controls and Personal Protective Equipment.). All loading and unloading equipment must be inspected, prior to each use. Loading and unloading operations must be attended, at all times. Tank cars must be level, brakes must be set or wheels must be locked or blocked prior to loading or unloading. Tank car (for loading) or storage tanks (for unloading) must be verified to be correct for receiving this product and be properly prepared, prior to starting the transfer operations. Hoses must be verified to be in the correct positions, before starting transfer operations. A sample (if required) must be taken and verified (if required) prior to starting transfer operations. All lines must be blown-down and purged before disconnecting them from the tank car or vessel.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:

Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Collect all rinsates and dispose of according to applicable Federal, State, Provincial, or local procedures.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL Methyl Ethyl Ketone	CA 78-93	 CS# TWA (0 9-0 200 p	<i>,</i> ,	
MATERIAL Methyl Ethyl Ketone	CAS# 78-93-3	CEILING S None Known		HAP No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

RESPIRATORY EXPOSURE CONTROLS

Seek professional advice prior to respirator selection and use.

Maintain airborne contaminant concentrations below exposure limits given above. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations. If adequate ventilation is not available or there is potential for airborne exposure above the exposure limits, a respirator may be worn up to the respirator exposure limitations, check with respirator equipment manufacturer's recommendations/limitations. For a higher level of protection, use positive pressure supplied air respiration protection or Self-Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS

Positive pressure, full-face piece Self-Contained Breathing Apparatus; or positive pressure, full-face piece Self-Contained Breathing Apparatus with an auxilliary positive pressure Self-Contained Breathing Apparatus.

COMPANY IDENTITY:	Packaging Service Co., Inc.
PRODUCT IDENTITY:	CROWN MEK (METHYL ETHYL KETONE)
SDS NUMBER:	MEK

SDS DATE: 04/04/2013 REPLACES: 05/20/2011

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

VENTILATION

LOCAL EXHAUST:NecessaryMECHANICAL (GENERAL):NecessarySPECIAL:NoneOTHER:NonePlease refer to ACGIH document, "Industrial Ventilation, A Manual of
Recommended Practices", most recent edition, for details.

EYE PROTECTION:

Splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

HAND PROTECTION:

Wear appropriate impervious gloves for routine industrial use. Use impervious gloves for spill response, as stated in Section 6 of this SDS (Accidental Release Measures). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

BODY PROTECTION:

Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from impervious materials are generally acceptable, depending on the task.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at end of each shift & before eating, smoking or using the toilet. Remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Water-White
ODOR:	Ketone
ODOR THRESHOLD:	Not Available
pH (Neutrality):	Not Applicable
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP,50%,Dry Point):	77 79 81 C / 172 175 178 F
FLASH POINT (TÈST METHÓD):	-2 C / 28 F (TCC)
EVAPORATION RATE (n-BUTYL ACETATE=1):	3.6
FLAMMABILITY CLASSIFICATION:	Class I B
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.8
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	10.0
VAPOR PRESSURE (mm of Hg)@20 C	70.0
VAPOR DENSITY (air=1):	2.5
GRAVITY @ 68/68 F / 20/20 C:	
SPECIFIC GRAVITY (Water=1):	0.805
POUNDS/GALLON:	6.706
WATER SOLUBILITY:	Appreciable
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	515 C / 960 F
DECOMPOSITION TEMPERATURE:	Not Available
VOCs (>0.044 Lbs/Sq In) :	100.0 Vol% / 805.0 g/L / 6.7 Lbs/Gal
TOTAL VOC'S (TVOC)*:	100.0 Vol% / 805.0 g/L / 6.7 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	100.0 Vol% / 805.0 g/L / 6.7 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	
* Using California Air Resources Board (CARB) Rul	le 310.

SDS DATE: 04/04/2013 REPLACES: 05/20/2011

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable under normal conditions.

CONDITIONS TO AVOID Isolate from oxidizers, heat, sparks, electric equipment & open flame.

MATERIALS TO AVOID Reacts with strong oxidants, causing fire & explosion hazard.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

SWALLOWING: Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS: This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

IRRITANCY OF PRODUCT: This product is irritating to contaminated tissue.

SENSITIZATION TO THE PRODUCT: No component of this product is known to be a sensitizer.

MUTAGENICITY: This product is not reported to produce mutagenic effects in humans.

EMBRYOTOXICITY: This product is not reported to produce embryotoxic effects in humans.

TERATOGENICITY: This product is not reported to produce teratogenic effects in humans.

REPRODUCTIVE TOXICITY: This product is not reported to cause reproductive effects in humans.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (such as: within the eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

SDS DATE: 04/04/2013 REPLACES: 05/20/2011

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MAMMALIAN TOXICITY INFORMATION

MATERIAL	CAS#	EINECS#	LOWEST KNOWN LETHAL DOSE DATA LOWEST KNOWN LD50 (ORAL)
Methyl Ethyl Ketone	78-93-3	201-159-0	3400.0 mg/kg(Rats) LOWEST KNOWN LC50 (VAPORS)
Methyl Ethyl Ketone	78-93-3	201-159-0	2000 ppm (Rats) LOWEST KNOWN LD50 (SKIN)
Methyl Ethyl Ketone	78-93-3	201-159-0	12600.0 mg/kg (Rabbits)

SECTION 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

EFFECT OF MATERIAL ON PLANTS AND ANIMALS: This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

EFFECT OF MATERIAL ON AQUATIC LIFE: The most sensitive known aquatic group to any component of this product is: Fish exposed to 5120 ppm or mg/L are adversely affected by components of this product. Keep out of sewers and natural water supplies.

MOBILITY IN SOIL This material is a mobile liquid.

DEGRADABILITY This product is completely biodegradable.

ACCUMULATION This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

IF > 5000 LB / 2272 KG OF THIS PRODUCT IS IN 1 CONTAINER, IT EXCEEDS THE RQ OF METHYL ETHYL KETONE. "RQ" MUST BE PUT BEFORE THE DOT SHIPPING NAME.

DOT/TDG SHIP NAME: UN1193, Methyl Ethyl Ketone, 3, PG-IIDRUM LABEL:(FLAMMABLE LIQUID)IATA / ICAO:UN1193, Methyl Ethyl Ketone, 3, PG-IIIMO / IMDG:UN1193, Methyl Ethyl Ketone, 3, PG-IIEMERGENCY RESPONSEGUIDEBOOK NUMBER: 127

SECTION 15. REGULATORY INFORMATION

EPA REGULATION: SARA SECTION 311/312 HAZARDS: Acute Health, Fire



SDS DATE: 04/04/2013 REPLACES: 05/20/2011

SECTION 15. REGULATORY INFORMATION (CONTINUED)

All components of this product are on the TSCA list. This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

SARA TITLE III INGREDIENTS	CAS#	EINECS#	WT%	(REG.SECTION)	RQ(LBS)
Methyl Ethyl Ketone	78-93-3	201-159-0	95-100	(311,312)	5000

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries: Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS)G Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIOC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) B2: Flammable Liquid. D2B: Irritating to skin / eyes.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS: HEALTH (NFPA): 1, HEALTH (HMIS): 2, FLAMMABILITY: 3, PHYSICAL HAZARD: 0
 (Personal Protection Rating to be supplied by user based on use conditions.)
 This information is intended solely for the use of individuals
 trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Unless updated, the Safety Data Sheet is valid until 04/04/2016.



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 04/18/2017

Revision date: 04/18/2017 Version: 1.0

SECTION 1: Identification			
1.1. Product identifier			
Substance name	Destroyer Compressed Gas Duster		
Product code		C, 50-07521, 50-07522, 50-07524, 50-07	
	7522C, 50-07524C, 50-075212C, 50-074 of the substance or mixture and uses adv	I8, 50-07526, 50-105212RCP, 50-10522C vised against	, 50-10524C
Jse of the substance/mixture	: Dust Removal		
1.3. Details of the supplier of	the safety data sheet		
Falcon Safety Products, Inc. 25 ImClone Drive Branchburg, NJ 08876 - USA T (908) 707-4900			
1.4. Emergency telephone nu	mber		
Emergency number	: (800) 498-7192		
SECTION 2: Hazards identif	ication		
2.1. Classification of the subs	stance or mixture		
GHS-US and GHS-CA classification	n		
Flam. Aerosol Category 2			
Press. Gas (Liquified Gas)			
2.2. Label elements			
GHS-US and GHS-CA labelling Hazard pictograms (GHS-US/GHS-C.			
	GHS02 GHS04		
Hazard statements (GHS-US/GHS-C	: Warning A) : Flammable aerosol. Contain GHS-CA) : Keep away from heat/sparks flame or other ignition sourc	ns gas under pressure; may explode if heater s/open flames/hot surfaces No smoking. D e. Pressurized container: Do not pierce or bu t expose to temperatures exceeding 50 °C/1	o not spray on an open urn, even after use.
Hazard statements (GHS-US/GHS-C Precautionary statements (GHS-US/C	 Warning Flammable aerosol. Contain GHS-CA) Keep away from heat/sparks flame or other ignition sourc Protect from sunlight. Do no 	s/open flames/hot surfaces No smoking. D e. Pressurized container: Do not pierce or bu	o not spray on an open urn, even after use.
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Hazard statements (GHS-US/GHS-C Precautionary statements (GHS-US/C 2.3. Other hazards Do not store in enclosed vehicle. 2.4. Unknown acute toxicity (C Not applicable.	 Warning Flammable aerosol. Contain Flammable aerosol. Contain GHS-CA) Keep away from heat/sparks flame or other ignition source Protect from sunlight. Do no ventilated place. 	s/open flames/hot surfaces No smoking. D e. Pressurized container: Do not pierce or bu	o not spray on an open urn, even after use.
Hazard statements (GHS-US/GHS-C. Precautionary statements (GHS-US/G 2.3. Other hazards Do not store in enclosed vehicle. 2.4. Unknown acute toxicity (Not applicable. SECTION 3: Composition/in	 Warning Flammable aerosol. Contain Flammable aerosol. Contain GHS-CA) Keep away from heat/sparks flame or other ignition source Protect from sunlight. Do no ventilated place. 	s/open flames/hot surfaces No smoking. D e. Pressurized container: Do not pierce or bu	o not spray on an open urn, even after use.
Hazard statements (GHS-US/GHS-C. Precautionary statements (GHS-US/G 2.3. Other hazards Do not store in enclosed vehicle. 2.4. Unknown acute toxicity (Not applicable. SECTION 3: Composition/in 3.1. Substance	 Warning Flammable aerosol. Contain Flammable aerosol. Contain GHS-CA) Keep away from heat/sparks flame or other ignition source Protect from sunlight. Do no ventilated place. 	s/open flames/hot surfaces No smoking. D e. Pressurized container: Do not pierce or b t expose to temperatures exceeding 50 °C/1	o not spray on an open urn, even after use. 22 °F. Store in a well-
Hazard statements (GHS-US/GHS-C. Precautionary statements (GHS-US/G 2.3. Other hazards Do not store in enclosed vehicle. 2.4. Unknown acute toxicity (Not applicable. SECTION 3: Composition/in	 Warning Flammable aerosol. Contain Flammable aerosol. Contain GHS-CA) Keep away from heat/sparks flame or other ignition source Protect from sunlight. Do no ventilated place. 	s/open flames/hot surfaces No smoking. D e. Pressurized container: Do not pierce or bu	o not spray on an open urn, even after use.
Hazard statements (GHS-US/GHS-C. Precautionary statements (GHS-US/G 2.3. Other hazards Do not store in enclosed vehicle. 2.4. Unknown acute toxicity (C Not applicable. SECTION 3: Composition/in 3.1. Substance Name 1,1-Difluoroethane	 Warning Flammable aerosol. Contain Flammable aerosol. Contain GHS-CA) Keep away from heat/sparks flame or other ignition source Protect from sunlight. Do no ventilated place. 	s/open flames/hot surfaces No smoking. D e. Pressurized container: Do not pierce or b t expose to temperatures exceeding 50 °C/1 Product identifier	o not spray on an open urn, even after use. 22 °F. Store in a well-
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Hazard statements (GHS-US/GHS-C Precautionary statements (GHS-US/G 2.3. Other hazards Do not store in enclosed vehicle. 2.4. Unknown acute toxicity (f Not applicable. SECTION 3: Composition/in 3.1. Substance Name 1,1-Difluoroethane 3.2. Mixture Not applicable. SECTION 4: First aid measu 4.1. Description of first aid measu	 Warning Flammable aerosol. Contain Flammable aerosol. Contain GHS-CA) Keep away from heat/sparks flame or other ignition sourc Protect from sunlight. Do no ventilated place. 	s/open flames/hot surfaces No smoking. D se. Pressurized container: Do not pierce or bu to expose to temperatures exceeding 50 °C/1 Product identifier (CAS No) 75-37-6 victim to fresh air and keep at rest in a position c	o not spray on an open urn, even after use. 22 °F. Store in a well- % 100
Do not store in enclosed vehicle. 2.4. Unknown acute toxicity (Not applicable. SECTION 3: Composition/in 3.1. Substance Name 1,1-Difluoroethane 3.2. Mixture Not applicable. SECTION 4: First aid measu	Warning Second State	s/open flames/hot surfaces No smoking. D se. Pressurized container: Do not pierce or bu to expose to temperatures exceeding 50 °C/1 Product identifier (CAS No) 75-37-6 victim to fresh air and keep at rest in a position c	o not spray on an open urn, even after use. 22 °F. Store in a well-

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

First-aid measures after eye contact	 In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
I.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.
Symptoms/injuries after ingestion	: Not a normal route of exposure.
I.3. Indication of any immediate medical	attention and special treatment needed
Symptoms may not appear immediately. In case of	accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, water fog, dry chemical, alcohol resistant foam, carbon dioxide.
Insuitable extinguishing media	: None known.
5.2. Special hazards arising from the sub	bstance or mixture
Fire hazard	: Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon, hydrofluoric acid, carbonyl fluoride.
Explosion hazard	 Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.3. Advice for firefighters	·
Firefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area. Vapors are heavier than air
	and may travel considerable distance to an ignition source and flash back to source of vapors.
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
SECTION 6: Accidental release meas	sures
	uipment and emergency procedures
6.1. Personal precautions, protective equ	 uipment and emergency procedures Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.
6.1. Personal precautions, protective equ General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.
S.1. Personal precautions, protective equilibrium General measures S.2. Methods and material for containme	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.
S.1. Personal precautions, protective equ General measures Methods and material for containme For containment	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.
S.1. Personal precautions, protective equ General measures Methods and material for containme For containment Methods for cleaning up	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
6.1. Personal precautions, protective equilibrium General measures General measures 6.2. Methods and material for containment For containment Methods for cleaning up 6.3. Reference to other sections	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation.
S.1. Personal precautions, protective equals General measures Second and material for containment Socontainment Methods for cleaning up Socontainment Second and material for containment Socontainment Second for cleaning up Socontainment Second for further information on protective	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
S.1. Personal precautions, protective equations and material for containment Methods and material for containment Methods for cleaning up S.3. Reference to other sections See section 8 for further information on protective SECTION 7: Handling and storage	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation.
6.1. Personal precautions, protective equal General measures General measures 6.2. Methods and material for containme For containment Methods for cleaning up 6.3. Reference to other sections	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or
6.1. Personal precautions, protective equal General measures 6.2. 6.2. Methods and material for containment For containment Methods for cleaning up 6.3. Reference to other sections See section 8 for further information on protective SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation.
S.1. Personal precautions, protective equilibrium General measures Methods and material for containment Methods for cleaning up S.3. Reference to other sections See section 8 for further information on protective SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic
Additional hazards when processed Precautions for safe handling	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
6.1. Personal precautions, protective equ General measures 6.2. Methods and material for containment for containment Methods for cleaning up 6.3. Reference to other sections See section 8 for further information on protective SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includir	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
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6.1. Personal precautions, protective equal General measures 6.2. Methods and material for containment For containment Methods for cleaning up 6.3. Reference to other sections See section 8 for further information on protective SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includir Technical measures	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
6.1. Personal precautions, protective equal General measures 6.2. 6.2. Methods and material for containment For containment Methods for cleaning up 6.3. Reference to other sections See section 8 for further information on protective SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Int and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Proper grounding procedures to avoid static electricity should be followed. Keep out of the reach of children. Keep container dry and in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep in fireproof place.

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 8: Exposure c	ontrols/personal protection
8.1. Control parameters	
1,1-Difluoroethane (75-37-6)	
ACGIH	Not applicable.
OSHA	Not applicable.
NIOSH	Not applicable.
IDLH	Not applicable.

uate to keep exposures (airborne levels of dust, fume, vapor, etc.) below sure limits.
S.
side shields.
tive clothing.
t ventilation, wear suitable respiratory equipment. Respirator selection nown or anticipated exposure levels, the hazards of the product and the f the selected respirator.
w Community environmental protection thresholds.
drink where material is handled, processed or stored. Wash hands carefully ing. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Gas
Appearance	: Clear
Color	: Colourless
Odor	: Slight, ether-like
Odor threshold	: No data available
рН	: Neutral
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -13 °F (- 25 °C)
Flash point	: < 58 °F (<14.4 °C)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Flammable
Explosion limits	: 3.9-16.9
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 5960 kPa at 77 °F (25 °C)
Relative density	: 0.91
Relative vapor density at 20 °C	: 2.4 at 77 °F (25 °C)
Specific gravity / density	: 0.9
Solubility	: Slightly
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

No additional information available.

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No dangerous reaction known under conditions o	f normal use.
10.2. Chemical stability	
Stable under normal storage conditions. Flammal	ble aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn
10.3. Possibility of hazardous reactions	
No dangerous reaction known under conditions o	f normal use.
10.4. Conditions to avoid	
Heat. Incompatible materials. Sources of ignition.	Do not expose to temperatures exceeding 50 °C/ 122 °F.
10.5. Incompatible materials	
Alkali and alkaline earth metals. Powdered metals	s. Powdered metallic salts.
10.6. Hazardous decomposition products	
May include, and are not limited to: oxides of carb	pon, hydrofluoric acid, carbonyl fluoride.
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Acute toxicity	
Dust Destroyer Compressed Gas Duster	
LD50 oral rat	1500 mg/kg
LD50 dermal rabbit	No data available
LC50 inhalation rat	64000 ppm
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.

: Not a normal route of exposure.

Symptoms/injuries after ingestion

SECTION 12: Ecological information 12.1. Toxicity

Ecology - general

: May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability	
Dust Destroyer Compressed Gas Duster	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Dust Destroyer Compressed Gas Duster	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available.	
12.5. Other adverse effects	
Effect on the global warming	: No known ecological damage caused by this product.

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Waste disposal recommendations	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. Container under pressure. Do not drill or burn even after use.
Additional information	: Flammable vapors may accumulate in the container.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
UN-No. (DOT)	: UN1030
Proper Shipping Name (DOT)	: 1,1-Difluoroethane
Transport hazard class(es) (DOT)	: 2.1
Hazard labels (DOT)	
Packaging Exceptions	: Falcon Safety Products has been granted a DOT special permit. A copy of DOT Special Permit SP-11516 can be obtained by calling Falcon Safety Products, Inc. at 908-707-4900.
Transportation of Dangerous Goods (TDG)	
In accordance with TDG	
UN-No.(TDG)	: UN1030
Proper Shipping Name (TDG)	: 1,1-Difluoroethane
Class (TDG)	: 2.1
Hazard labels (TDG)	
Packaging Exceptions	 TDG Canada: Falcon Safety Products has been granted Equivalency Certificate SU 9211 (ren. the TCSS, TDGD to offer for transport by road, rail and marine.
Transport by sea	
UN-No. (IMDG)	: UN1030
Proper Shipping Name (IMDG)	: 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a)
Class (IMDG)	: 2.1
Air transport	
UN-No. (IATA)	: UN1030
Proper Shipping Name (IATA)	: 1,1-Difluoroethane
Class (IATA)	: 2.1
Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Do not handle until all safety precautions have been read and understood.
SECTION 15: Regulatory informatio	n
15.1. Federal regulations	
All components of this product are listed, or ex Control Act (TSCA) inventory	cluded from listing, on the United States Environmental Protection Agency Toxic Substances
1,1-Difluoroethane (75-37-6)	
Listed on the Canadian DSL (Domestic Sustar	nces List)
15.2. US State regulations	
Dust Destroyer Compressed Gas Duster	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Dust Destroyer Compressed G	as Duster
	birth defects or other reproductive harm.
SECTION 16: Other infor	mation
Date of issue	: 04/18/2017
Revision date	: 04/18/2017
Other information	: None.
Mexico Classification:	



Blue = Health Red = Flammability Yellow = Reactivity White = Special Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 04/18/2017

Revision date: 04/18/2017 Version: 1.0

Substance name : Dual Destroyer Compressed Gas Duster Substance name : SU-10521, 60.3521, 50.07521, 50.07526, 50.07526, 50.015212RCP, 50.10522C, 50.01522, 50.07524, 50.07526, 50.015212RCP, 50.10522C, 50.01522, 50.0152, 50.015,	Product identifier Dust Destroyer Compressed Gas Duster ubstance name : 50-10521; 50-0521; 50-0552; 50-075; 50-075; 50-			Date of Issu		iterision uale. 04	10/2017					
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Substance name : 60-10521, 50-35521, 50-07521, 50-07522, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-0524C, 50-0534C 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Dust Removal 1.3. Details of the subplier of the safety data sheet Falcon Safety Products, Inc. 25 ImcClone Duve Branchturg, NJ 08876 - USA T (969) 707-400 1.4. Energency uteleptone number Emergency number : (800) 498-7192 SECTION 21 Hazards identification CHS-US and CHS-CA classification CHS-US and CHS-CA classification CHS-US and CHS-CA classification CHS-US (CHS-US/CHS-CA) Example to the substance or mixture CHS-US and CHS-CA labeling Hazard pictograms (CHS-US/CHS-CA) E Warning Hazard pictograms (CHS-US/CHS-CA) E Warning Hazard statements (CHS-US/CHS-CA) E Warning Hazard statements (CHS-US/CHS-CA) E Keep away from heat-spark/spen flames/hot surfaces No anpicer ob use after use of the substance of multiplet. 2.3. Other hazards Do not store in enclosed vehicle. 2.4. Unknown acute toxicity (GHS US/CHS-CA) E SECTION 32: Composition/Information on Ingredients 3.1. Substance ESECTION 32: Composition/Information on Ingredients 3.1. Substance Fare- differences First-aid measures after inhalatio ESECTION 43: First ald measures First-aid measures after is kin contact E Cortical, E Section 44: First ald measures First-aid measures after inhalatio First-aid measures after inhalation First-aid measur	ubstance name : 0-01021, 10-03210, 50-035220, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-07524, 50-0524C, 50-10524C, 50-105		Product identifier									
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Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.
Symptoms/injuries after ingestion	: Not a normal route of exposure.
I.3. Indication of any immediate medica	I attention and special treatment needed
Symptoms may not appear immediately. In case of	accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, water fog, dry chemical, alcohol resistant foam, carbon dioxide.
Insuitable extinguishing media	: None known.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Flammable aerosol. Products of combustion may include, and are not limited to: oxides of
Explosion hazard	 carbon, hydrofluoric acid, carbonyl fluoride. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of
•	burns and injuries.
.3. Advice for firefighters	
irefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
	protection (SCBA).
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SECTION 6: Accidental release measures 5.1. Personal precautions, protective equipment of the section of the sections of the section of the sections of the section of the sections of the se	 protection (SCBA). SUITES Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
SECTION 6: Accidental release measures S.1. Personal precautions, protective equipment of the sections Seneral measures S.2. Methods and material for containment Methods for cleaning up S.3. Reference to other sections See section 8 for further information on protective SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including	 protection (SCBA). SUITES iupment and emergency procedures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up : Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). : Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. : Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. : Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools. : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. : Proper grounding procedures to avoid static electricity should be followed.
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Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
1,1-Difluoroethane (75-37-6)		
ACGIH	Not applicable.	
OSHA	Not applicable.	
NIOSH	Not applicable.	
IDLH	Not applicable.	

uate to keep exposures (airborne levels of dust, fume, vapor, etc.) below sure limits.
S.
side shields.
tive clothing.
t ventilation, wear suitable respiratory equipment. Respirator selection nown or anticipated exposure levels, the hazards of the product and the f the selected respirator.
w Community environmental protection thresholds.
drink where material is handled, processed or stored. Wash hands carefully ing. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Gas
Appearance	: Clear
Color	: Colourless
Odor	: Slight, ether-like
Odor threshold	: No data available
рН	: Neutral
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -13 °F (- 25 °C)
Flash point	: < 58 °F (<14.4 °C)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Flammable
Explosion limits	: 3.9-16.9
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 5960 kPa at 77 °F (25 °C)
Relative density	: 0.91
Relative vapor density at 20 °C	: 2.4 at 77 °F (25 °C)
Specific gravity / density	: 0.9
Solubility	: Slightly
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

No additional information available.

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No dangerous reaction known under conditions of	f normal use.
10.2. Chemical stability	
Stable under normal storage conditions. Flammak	ble aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not but
10.3. Possibility of hazardous reactions	
No dangerous reaction known under conditions of	f normal use.
10.4. Conditions to avoid	
Heat. Incompatible materials. Sources of ignition.	Do not expose to temperatures exceeding 50 °C/ 122 °F.
10.5. Incompatible materials	
Alkali and alkaline earth metals. Powdered metals	s. Powdered metallic salts.
10.6. Hazardous decomposition products	
May include, and are not limited to: oxides of carb	oon, hydrofluoric acid, carbonyl fluoride.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Dust Destroyer Compressed Gas Duster	
LD50 oral rat	1500 mg/kg
LD50 dermal rabbit	No data available
LC50 inhalation rat	64000 ppm
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.
Symptoms/injuries after ingestion	: Not a normal route of exposure.

SECTION 12: Ecological information Toxicity 12.1.

Ecology - general

: May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability		
Dust Destroyer Compressed Gas Duster		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Dust Destroyer Compressed Gas Duster		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available.		
12.5. Other adverse effects		
Effect on the global warming	: No known ecological damage caused by this product.	

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 13: Disposal consideration	Products Regulations (HPR) WHIMIS 2015
13.1. Waste treatment methods	
Waste disposal recommendations	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. Container under pressure. Do not drill or burn even after use.
Additional information	: Flammable vapors may accumulate in the container.
SECTION 14: Transport information	n
Department of Transportation (DOT)	
In accordance with DOT	
UN-No. (DOT)	: UN1030
Proper Shipping Name (DOT)	: 1,1-Difluoroethane
Transport hazard class(es) (DOT)	: 2.1
Hazard labels (DOT)	
Packaging Exceptions	 Falcon Safety Products has been granted a DOT special permit. A copy of DOT Special Permit SP-11516 can be obtained by calling Falcon Safety Products, Inc. at 908-707-4900.
Transportation of Dangerous Goods (TDG)	
In accordance with TDG	
UN-No.(TDG)	: UN1030
Proper Shipping Name (TDG)	: 1,1-Difluoroethane
Class (TDG)	: 2.1
Hazard labels (TDG)	
Packaging Exceptions	 TDG Canada: Falcon Safety Products has been granted Equivalency Certificate SU 9211 (ren. 1) by the TCSS, TDGD to offer for transport by road, rail and marine.
Transport by sea	
UN-No. (IMDG)	: UN1030
Proper Shipping Name (IMDG)	: 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a)
Class (IMDG)	: 2.1
Air transport	
UN-No. (IATA)	: UN1030
Proper Shipping Name (IATA)	: 1,1-Difluoroethane
Class (IATA)	: 2.1
Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Do not handle until all safety precautions have been read and understood.
SECTION 15: Regulatory information	on
15.1. Federal regulations	
All components of this product are listed, or e Control Act (TSCA) inventory	excluded from listing, on the United States Environmental Protection Agency Toxic Substances
1,1-Difluoroethane (75-37-6)	
Listed on the Canadian DSL (Domestic Susta	ances List)
15.2. US State regulations	
Dust Destroyer Compressed Gas Duster	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer,

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Dust Destroyer Compressed Gas Duster	
	birth defects or other reproductive harm.
SECTION 16: Other infor	mation
Date of issue	: 04/18/2017
Revision date	: 04/18/2017
Other information	: None.
Mexico Classification:	



Blue = Health Red = Flammability Yellow = Reactivity White = Special Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 04/18/2017

Revision date: 04/18/2017 Version: 1.0

2, 50-07524, 50-07521C,	
212RCP, 50-10522C, 50-1	10524C
nay explode if heated. ces No smoking. Do not s r: Do not pierce or burn, ev es exceeding 50 °C/122 °F.	en after use.
identifier	%
75-37-6	100
) at rest in a position comforta	able for breathing
p at rest in a position comforta vater. Remove contaminated itation develops and persists.	clothing and
vater. Remove contaminated	clothing and

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

First-aid measures after eye contact	 In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
I.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.
Symptoms/injuries after ingestion	: Not a normal route of exposure.
I.3. Indication of any immediate medical	attention and special treatment needed
Symptoms may not appear immediately. In case of	accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, water fog, dry chemical, alcohol resistant foam, carbon dioxide.
Insuitable extinguishing media	: None known.
5.2. Special hazards arising from the sub	bstance or mixture
Fire hazard	: Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon, hydrofluoric acid, carbonyl fluoride.
Explosion hazard	 Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.3. Advice for firefighters	·
Firefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area. Vapors are heavier than air
	and may travel considerable distance to an ignition source and flash back to source of vapors.
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
SECTION 6: Accidental release meas	sures
	uipment and emergency procedures
6.1. Personal precautions, protective equ	 uipment and emergency procedures Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.
6.1. Personal precautions, protective equ General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.
S.1. Personal precautions, protective equilibrium General measures S.2. Methods and material for containme	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.
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S.1. Personal precautions, protective equ General measures Methods and material for containme For containment Methods for cleaning up	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
6.1. Personal precautions, protective equal General measures General measures 6.2. Methods and material for containment For containment Methods for cleaning up 6.3. Reference to other sections	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation.
S.1. Personal precautions, protective equals General measures Second and material for containment Socontainment Methods for cleaning up Socontainment Second and material for containment Socontainment Second for cleaning up Socontainment Second for cleaning up Socontainment Second for further information on protective	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
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Additional hazards when processed Precautions for safe handling	 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. ent and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Leave the product to evaporate. Provide ventilation. e clothing and equipment and section 13 for advice on waste disposal. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
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SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
1,1-Difluoroethane (75-37-6)		
ACGIH	Not applicable.	
OSHA	Not applicable.	
NIOSH	Not applicable.	
IDLH	Not applicable.	

: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
: Wear suitable gloves.
: Safety glasses with side shields.
: Wear suitable protective clothing.
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
: Maintain levels below Community environmental protection thresholds.
: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and	chemical properties
Physical state	: Gas
Appearance	: Clear
Color	: Colourless
Odor	: Slight, ether-like
Odor threshold	: No data available
рН	: Neutral
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -13 °F (- 25 °C)
Flash point	: < 58 °F (<14.4 °C)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Flammable
Explosion limits	: 3.9-16.9
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 5960 kPa at 77 °F (25 °C)
Relative density	: 0.91
Relative vapor density at 20 °C	: 2.4 at 77 °F (25 °C)
Specific gravity / density	: 0.9
Solubility	: Slightly
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

No additional information available.

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No dangerous reaction known under conditions of	f normal use.
10.2. Chemical stability	
Stable under normal storage conditions. Flammak	ble aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not but
10.3. Possibility of hazardous reactions	
No dangerous reaction known under conditions of	f normal use.
10.4. Conditions to avoid	
Heat. Incompatible materials. Sources of ignition.	Do not expose to temperatures exceeding 50 °C/ 122 °F.
10.5. Incompatible materials	
Alkali and alkaline earth metals. Powdered metals	s. Powdered metallic salts.
10.6. Hazardous decomposition products	
May include, and are not limited to: oxides of carb	oon, hydrofluoric acid, carbonyl fluoride.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Dust Destroyer Compressed Gas Duster	
LD50 oral rat	1500 mg/kg
LD50 dermal rabbit	No data available
LC50 inhalation rat	64000 ppm
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.

: Not a normal route of exposure.

Symptoms/injuries after ingestion

SECTION 12: Ecological information 12.1. Toxicity

Ecology - general

: May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability		
Dust Destroyer Compressed Gas Duster		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Dust Destroyer Compressed Gas Duster		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available.		
12.5. Other adverse effects		
Effect on the global warming	: No known ecological damage caused by this product.	

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 13: Disposal consideration	Products Regulations (HPR) WHIMIS 2015
13.1. Waste treatment methods	
Waste disposal recommendations	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. Container under pressure. Do not drill or burn even after use.
Additional information	: Flammable vapors may accumulate in the container.
SECTION 14: Transport information	n
Department of Transportation (DOT)	
In accordance with DOT	
UN-No. (DOT)	: UN1030
Proper Shipping Name (DOT)	: 1,1-Difluoroethane
Transport hazard class(es) (DOT)	: 2.1
Hazard labels (DOT)	
Packaging Exceptions	 Falcon Safety Products has been granted a DOT special permit. A copy of DOT Special Permit SP-11516 can be obtained by calling Falcon Safety Products, Inc. at 908-707-4900.
Transportation of Dangerous Goods (TDG)	
In accordance with TDG	
UN-No.(TDG)	: UN1030
Proper Shipping Name (TDG)	: 1,1-Difluoroethane
Class (TDG)	: 2.1
Hazard labels (TDG)	
Packaging Exceptions	 TDG Canada: Falcon Safety Products has been granted Equivalency Certificate SU 9211 (ren. 1) by the TCSS, TDGD to offer for transport by road, rail and marine.
Transport by sea	
UN-No. (IMDG)	: UN1030
Proper Shipping Name (IMDG)	: 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a)
Class (IMDG)	: 2.1
Air transport	
UN-No. (IATA)	: UN1030
Proper Shipping Name (IATA)	: 1,1-Difluoroethane
Class (IATA)	: 2.1
Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Do not handle until all safety precautions have been read and understood.
SECTION 15: Regulatory information	on
15.1. Federal regulations	
All components of this product are listed, or e Control Act (TSCA) inventory	excluded from listing, on the United States Environmental Protection Agency Toxic Substances
1,1-Difluoroethane (75-37-6)	
Listed on the Canadian DSL (Domestic Susta	ances List)
15.2. US State regulations	
Dust Destroyer Compressed Gas Duster	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer,

5/6

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Dust Destroyer Compressed Gas Duster		
	birth defects or other reproductive harm.	
SECTION 16: Other infor	mation	
Date of issue	: 04/18/2017	
Revision date	: 04/18/2017	
Other information	: None.	
Mexico Classification:		



Blue = Health Red = Flammability Yellow = Reactivity White = Special Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.



SAFETY DATA SHEET

EchoPureTM Phased Array, Cold

Weather, Warm Welds Ultrasonic Couplant

	SECTION 1 – IDENTIFICATION
Pure™ (all visco	osities) Manufacturer: Echo Ultrasonics™ LLC
Industrial Ultras	
-60° to 350°F (-	
For Industrial U	
	SECTION 2 – HAZARDS
	not considered to be hazardous by OSHA HazCom 2012 Criteria. Non-hazardous and non-
	accordance with HOHSC criteria. EchoPure is composed of compounds having a vapor pressure lead
	: Medium to High Viscosity liquid
	cause allergic skin reaction in sensitive individuals.
	se mild irritation.
	ot applicable at room temperature. Vapor from high temperatures may cause irritation of upper
respiratory trac	st.
Ingestion: Low	w toxicity, Ingredients are Generally Recognized as Safe for incidental food contact.
LABEL ELEME	ENTS ACCORDING TO OSHA HazCom 2012: NONE APPLICABLE
	CAS # WT %
	57-55-6 Less than 95 %
//	9004-34-6 Less than 5%
	SECTION 4 – FIRST-AID MEASURES
good industrial	I hygiene including eye protection.
•	
tion	Flush eyes with plenty of water. Remove contacts after 1-2 minutes and continue flushing fo
	several minutes.
e expected	Remove with dry cloth or paper towel and rinse away residue with water.
tion	If expected to expective venero or mistal remove to fresh air and get modical attention if eaus
lion	If exposed to excessive vapors or mists, remove to fresh air and get medical attention if coug or other symptoms develop.
e expected	or other symptoms develop.
<u>s expected</u>	SECTION 5 – FIRE-FIGHTING MEASURES
hing Equipmer	
om Combustio	
Inusual Hazard	ds: None
NFPA Ratin	
	SECTION 6 – ACCIDENTAL RELEASE MEASURES
	Spilled material may cause a slipping hazard. Prevent entry into spill area by unauthorized person
Procedures:	Keep unnecessary people away. Sprinkle with traction material if spill cannot be cleaned up
	immediately.
Procedures:	Minimize entry of material into storm sewers and drainage systems.
	Sweep or shovel spilled material into containers, wipe area with wet rags or hose with water to
	remove completely. EchoPure is slippery.
s: Skin and	SECTION 7 – HANDLING AND STORAGE eye contact should be avoided as a general industrial practice. Gloves are not required, Wearing eye
	n is recommended.
protection	n's recommended.
Store in or	riginal closed containers in a cool, dry area, between 0 – 35° C (32 - 95° F) Keep away from childre
is:	
	CTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
osure Limits:	None established
ing Controls:	None required
al Protection:	Eyes: Use safety glasses or other protection.
	Skin: None required
	Respiratory: Not required
	Additional: It is good general practice to provide eyewash stations or rinse bottles.
equirements:	Additional: It is good general practice to provide eyewash stations or rinse bottles. None
•	Additional: It is good general practice to provide eyewash stations or rinse bottles. None SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES
•	Additional: It is good general practice to provide eyewash stations or rinse bottles. None SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES arance: Clear to slight tint medium to high viscosity liquid
Appea	Additional: It is good general practice to provide eyewash stations or rinse bottles. None SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES arance: Clear to slight tint medium to high viscosity liquid Odor: Nearly Odorless
Appea Odor Thre	Additional: It is good general practice to provide eyewash stations or rinse bottles. None SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES arance: Clear to slight tint medium to high viscosity liquid Odor: Nearly Odorless eshold: No data
Appea Odor Thre	Additional: It is good general practice to provide eyewash stations or rinse bottles. None SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES arance: Clear to slight tint medium to high viscosity liquid Odor: Nearly Odorless
	dangerous in a than 0.1 mm H Color: Clear, S Physical Sate Odor: Nearly C Hazards: May Slippery Eye: May caus Skin: Essentia Inhalation: No respiratory trac Ingestion: Low LABEL ELEM of of good industrial of good industrial sptoms/Effects tion e expected tion e expected hing Equipment om Combustic Inusual Hazarco NFPA Ratir Precautions: Procedures: t Procedures: Store in o Store in o



SAFETY DATA SHEET EchoPureTM Phased Array, Cold

Weather, Warm Welds Ultrasonic Couplant

Flammable Limits: Non Flammable	
Specific Gravity: 1.03	
Vapor Pressure: Greater than 1	
Freezing point: Supercools	
Boiling Point: 360F, 182C	
Evaporation Rate: No data	
Flammability: No data	
Flash Point: 220°F / 104°C	
Auto-Ignition Temperature 700°F / 371°C	
Volatile Organic Compounds (VOC): Less than 1%	
SECTION 10 – STABILITY AND REACTIVITY Reactivity: Stable	
Chemical Stability: Stable	
Potential Hazards: No significant hazards expected	
Conditions to Avoid: None	
Incompatible Materials: None known	
Hazardous Polymerization: None known	
Hazardous Decomposition Products: None known	
SECTION 11 – TOXICOLOGICAL INFORMATION	
Likely Routes and Effects of Exposure : See section 2 Immediate: See section 2	
Symptoms: None expected	
Carcinogenicity: No evidence of being a carcinogen	
SECTION 12 – ECOLOGICAL INFORMATION Toxicology Data: Not expected to be acutely toxic to aquatic organisms	
Environmental Persistence/Degradation: Biodegradation is expected	
Bioaccumulation Potential: No bioaccumulation is expected	
Soil to Groundwater Motility: Not expected	
Other Adverse Effects: None expected	
SECTION 13 – DISPOSAL CONSIDERATIONS	
General Information: All disposal practices must be in compliance with all Federal, State, and	Local
laws and regulations.	
Disposal Containers: Any	
Disposal Methods: Landfill, municipal sewer if permissible	
Physical /Chemical properties affecting disposal: None	
Sewage Disposal: Small quantities generally permissible	
Special precautions for landfills or incinerators: None	
SECTION 14 – TRANSPORT INFORMATION	
UN Number and Proper Shipping Name: Not assigned	
Transport Hazard Class: None	
Packing Group: None	
Environmental Hazards or special precautions: None	
Bulk Transport Guidance: None	
Special Precautions: Not restricted, not regulated, not hazardous & not dangerous to transport by air by	ATA
SECTION 15 – REGULATORY INFORMATION	
Regulatory Information not included TSCA Inventory: All ingredients listed	
elsewhere: CEPA: All ingredients listed on DSL	
Section 311 SARA Title III/CERCLA	
Immediate (acute): No	
Delayed (chronic): No	
Delayed (chronic): No Fire Hazard: No	
Fire Hazard: No	
Fire Hazard: No Reactive: No	
Fire Hazard: No Reactive: No Sudden Release of Pressure: No	
Fire Hazard: No Reactive: No Sudden Release of Pressure: No SARA 313	Colifornia
Fire Hazard: No Reactive: No Sudden Release of Pressure: No SARA 313 This product does not contain chemicals which require reporting nor listing under	California
Fire Hazard: No Reactive: No Sudden Release of Pressure: No SARA 313 This product does not contain chemicals which require reporting nor listing under Proposition 65.	California
Fire Hazard: No Reactive: No Sudden Release of Pressure: No SARA 313 This product does not contain chemicals which require reporting nor listing under Proposition 65. SECTION 16 – OTHER INFORMATION	California
Fire Hazard: No Reactive: No Sudden Release of Pressure: No SARA 313 This product does not contain chemicals which require reporting nor listing under Proposition 65. SECTION 16 – OTHER INFORMATION 12 October 2014	California
Fire Hazard: No Reactive: No Sudden Release of Pressure: No SARA 313 This product does not contain chemicals which require reporting nor listing under Proposition 65. SECTION 16 – OTHER INFORMATION 12 October 2014 Last Revision: 20 August 2018	California
Fire Hazard: No Reactive: No Sudden Release of Pressure: No SARA 313 This product does not contain chemicals which require reporting nor listing under Proposition 65. SECTION 16 – OTHER INFORMATION 12 October 2014	California

All information herein is provided in good faith and believed to be accurate and reliable. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ according to location. It is the buyer's/user's responsibility to ensure that this product is used in compliance with all federal, state, and local laws.



SAFETY DATA SHEET

1. Identification

Product identifier	Food Grade Anti-Seize & Lubricating Compound	
Other means of identification		
Product code	SL35905, SL35906	
Recommended use	Anti-seize lubricant	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplie	r/Distributor information	
Manufactured or sold by:		
Company name	CRC Industries, Inc.	
Address	885 Louis Dr.	
Talankana	Warminster, PA 18974 US	
Telephone General Information	215-674-4300	
Technical	800-521-3168	
Assistance		
Customer Service	800-272-4620	
24-Hour Emergency	800-424-9300 (US)	
(CHEMTREC) Website	703-527-3887 (International) www.crcindustries.com	
Website	www.crcindustnes.com	
2. Hazard(s) identificatio	n	
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, Category 3 long-term hazard	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	Harmful to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use. Observe good industrial hygiene practices. Avoid release to the environment.	
Response	Wash hands after handling.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.	
Hazard(s) not otherwise	None known.	

classified (HNOC)

3. Composition/information on ingredients

Mixtures % **Chemical name** Common name and synonyms **CAS** number Calcium carbonate 1317-65-3 20 - 30 1-Decene, homopolymer, 68037-01-4 10 - 20 hydrogenated White mineral oil 8042-47-5 10 - 20 Talc (not containing asbestos 14807-96-6 5 - 10 fibers) Zinc oxide 1314-13-2 1 - 3

Chemical name	Common name and synonyms	CAS number	%
Titanium dioxide		13463-67-7	< 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Drink plenty of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Foam. Dry chemicals. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Cool containers exposed to heat with water spray and remove container, if no risk is involved.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Prevent product from entering drains. Following product recovery, flush area with water.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	
Precautions for safe handling	Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Keep away from heat and sources of ignition. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
Titanium dioxide (CAS	PEL	15 mg/m3 15 mg/m3	Total dust. Total dust.
13463-67-7) White mineral oil (CAS	PEL	5 mg/m3	Mist.
8042-47-5) Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3 5 mg/m3 15 mg/m3	Respirable fraction. Fume. Total dust.
US. OSHA Table Z-3 (29 CFR Components	1910.1000) Туре	Value	Form
Talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3 20 mppcf 2.4 mppcf	Respirable. Respirable.
US. ACGIH Threshold Limit V Components	/alues Type	Value	Form
Talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
White mineral oil (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
Zinc oxide (CAS 1314-13-2)	STEL TWA	10 mg/m3 2 mg/m3	Respirable fraction. Respirable fraction.
US. NIOSH: Pocket Guide to Components	Chemical Hazards Type	Value	Form
Calcium carbonate (CAS	TWA	5 mg/m3	Respirable.
1317-65-3)		10 mg/m3	Total
Talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
White mineral oil (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
Zinc oxide (CAS 1314-13-2)	TWA Ceiling STEL TWA	5 mg/m3 15 mg/m3 10 mg/m3 5 mg/m3 5 mg/m3	Mist. Dust. Fume. Dust. Fume.
logical limit values	No biological exposure limits noted for	•	
osure guidelines	Occupational Exposure Limits noted for the ingredient(s).		
propriate engineering trols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
vidual protection measures, s Eye/face protection	such as personal protective equipm Wear safety glasses with side shields	ent	
Skin protection			

Other	Wear suitable protective clothing.
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Physical stateLiquid.FormSemi-solid paste.	
Form Semi-solid paste.	
Color White.	
Odor Petroleum.	
Odor threshold Not available.	
pH Neutral.	
Melting point/freezing point > 449.6 °F (> 232 °C)	
Initial boiling point and boiling > 500 °F (> 260 °C) range	
Flash point> 449.6 °F (> 232 °C) Cleveland Open Cup)
Evaporation rate Slow.	
Flammability (solid, gas) Not available.	
Upper/lower flammability or explosive limits	
Flammability limit - lower Not available. (%)	
Flammability limit - upper Not available. (%)	
Vapor pressure < 0.01 kPa	
Vapor density > 5 (air = 1)	
Relative density 1.18	
Solubility (water) Negligible.	
Partition coefficient Not available. (n-octanol/water)	
Auto-ignition temperature > 500 °F (> 260 °C)	
Auto-ignition temperature> 500 °F (> 260 °C)Decomposition temperatureNot available.	
5 • • • • • • • • • • • • • • • • • • •	

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Contact with incompatible materials.
Acids. Strong oxidizing agents. Fluorine.
Carbon oxides. Hydrocarbon fumes and smoke. Halogenated materials. Heavy metal compounds.

11. Toxicological information

Information on likely routes of exposure		
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Prolonged skin contact may cause temporary irritation.	

Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and	Direct contact with eyes may cause temporary irritation.

toxicological characteristics Information on toxicological effects

Acute toxicity

Product	Species	Test Results
Food Grade Anti-Seize & Lubricat	ing Compound	
<u>Acute</u>		
Dermal		
LD50	Rabbit	8771 mg/kg estimated
Inhalation		
LC50	Rat	37 mg/l estimated
Oral		
LD50	Rat	2385 mg/kg Acute Toxicity Estimate
<u>Chronic</u>		
Oral		
LD50	Rat	36603 mg/kg estimated
* Estimates for product may b	e based on additional component data r	ot shown.
Skin corrosion/irritation	Prolonged skin contact may cause ten	
Serious eye damage/eye	Direct contact with eyes may cause te	mporary irritation.
irritation		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause	skin sensitization.
Germ cell mutagenicity	No data available to indicate product o mutagenic or genotoxic.	or any components present at greater than 0.1% are
Carcinogenicity	Not likely, due to the form of the produ	ict.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
White mineral oil (CAS 8	042-47-5) 3 Not ogram (NTP) Report on Carcinogens	classifiable as to carcinogenicity to humans.
Not available.		
Reproductive toxicity	This product is not expected to cause	reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged exposure may cause chron	ic effects.
12. Ecological information	n	
Ecotoxicity	Harmful to aquatic life with long lasting	g effects.
Product	Species	Test Results

Aquatic			
Acute			
Crustacea	EC50	Daphnia	6.5275 mg/l, 48 hours estimated
Fish	LC50	Fish	73.3333 ppm, 96 hours estimated

Components		Species	Test Results
Talc (not containing ast	bestos fibers) (CAS	\$ 14807-96-6)	
Aquatic			
Acute			
Fish	LC50	Zebra danio (Danio rerio)	> 100 g/l, 96 hours
Titanium dioxide (CAS	13463-67-7)		
Acute			
Other	EC50	Pseudokirchnerella subcapitata	5.83 mg/l, 72 hours
Chronic			
Other	NOEC	Pseudokirchnerella subcapitata	0.984 mg/l, 72 hours
Aquatic			
Acute			
Crustacea	LC50	Ceriodaphnia dubia	3 mg/l, 48 hours
		Water flea (Daphnia magna)	5.5 ppm, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	1000 mg/l, 96 hours
Zinc oxide (CAS 1314-	13-2)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	0.098 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	1.1 ppm, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Bioconcentration factor (BC	F)	
Titanium dioxide	352	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal of waste from residues / unused products	This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.
Hazardous waste code	Not regulated.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Zinc oxide (CAS 1314-13-2)

Zinc oxide (CAS 1314-13-2)

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed.

CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely	No

hazardous substance

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Talc (not containing asbestos fibers) (CAS 14807-96-6) Titanium dioxide (CAS 13463-67-7)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. New Jersey Worker and Community Right-to-Know Act

Calcium carbonate (CAS 1317-65-3) Talc (not containing asbestos fibers) (CAS 14807-96-6) Zinc oxide (CAS 1314-13-2) White mineral oil (CAS 8042-47-5)

US. Massachusetts RTK - Substance List

Calcium carbonate (CAS 1317-65-3) Talc (not containing asbestos fibers) (CAS 14807-96-6) White mineral oil (CAS 8042-47-5) Zinc oxide (CAS 1314-13-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Zinc oxide (CAS 1314-13-2) Diphenylamine (CAS 122-39-4) Calcium carbonate (CAS 1317-65-3) Polytetrafluoroethylene (CAS 9002-84-0) Talc (not containing asbestos fibers) (CAS 14807-96-6) White mineral oil (CAS 8042-47-5)

US. Rhode Island RTK

Zinc oxide (CAS 1314-13-2)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 0 % 51.100(s))

	Consumer products (40 CFR 59, Subpt. C)	Not regulated	
	State		
	Consumer products	This product is regulated as an Anti-seize Lubricant (non-aerosol). This puse in all 50 states.	product is compliant for
	VOC content (CA)	0 %	
	VOC content (OTC)	0 %	
Int	ernational Inventories		
	Country(s) or region	Inventory name	On inventory (yes/no)*
	Australia	Australian Inventory of Chemical Substances (AICS)	No
	Canada	Domestic Substances List (DSL)	No
	Canada	Non-Domestic Substances List (NDSL)	Yes
	China	Inventory of Existing Chemical Substances in China (IECSC)	No
	Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
	Europe	European List of Notified Chemical Substances (ELINCS)	No
	Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
	Korea	Existing Chemicals List (ECL)	Yes
	New Zealand	New Zealand Inventory	No
	Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
	United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

professional, or CRC Industries.

Issue date	07-21-2015
Prepared by	Allison Cho
Version #	01
Further information	Not available.
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
NFPA ratings	
Disclaimer	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further

clarification of any information contained on this (M)SDS consult your supervisor, a health & safety



SAFETY DATA SHEET

1. Identification

Product identifier	Food Grade Anti-Seize & Lubricating Compound
Other means of identification	
Product Code	No. SL35905 (Item# 1007942)
Recommended use	Anti-seize and lubricating compound
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Manufactured or sold by:	
Company name	CRC Industries, Inc.
Address	885 Louis Dr.
	Warminster, PA 18974 US
Telephone	
General Information	215-674-4300
Technical Assistance	800-521-3168
Customer Service	800-272-4620
24-Hour Emergency	800-424-9300 (US)
(CHEMTREC) Website	www.crcindustries.com
2 Honord(a) identification	
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
white mineral oil		8042-47-5	30 - 40
calcium carbonate		471-34-1	20 - 30
polyisobutylene		9003-27-4	20 - 30
talc (not containing asbestos fibers)		14807-96-6	10 - 20
amorphous fumed silica		112945-52-5	1 - 3
amorphous silica		7631-86-9	1 - 3

Chemical name	Common name and synonyms	CAS number	%
titanium dioxide		13463-67-7	1 - 3
fumed silica		68611-44-9	< 1
Specific chemical identity and/or p	ercentage of composition has been withheld as	a trade secret.	
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in attention if symptoms occur.	a position comfortable for brea	athing. Get medical
Skin contact	Rinse skin with water/shower. Get medical at	tention if irritation develops and	l persists.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. If material has been swallowed quantities of water to drink. Do not induce vor medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporar	y irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.		
General information	Ensure that medical personnel are aware of t protect themselves.	he material(s) involved, and tal	ke precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Carbon dioxide (CO2). Water Spray or Fog. F	oam.	
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.		nt coat, helmet with
Fire-fighting equipment/instructions	Cool containers exposed to heat with water s standard firefighting procedures and consider	the hazards of other involved	materials.
Specific methods	Use standard firefighting procedures and con	sider the hazards of other invo	lved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For perso	onal protection, see section 8 c	of the SDS.
Methods and materials for containment and cleaning up	The product is immiscible with water and will	sediment in water systems.	
ан са стана сторити д и р	Small Spills: Wipe up with absorbent material remove residual contamination. Sweep up or for disposal. Stop the flow of material, if this is with water. For waste disposal, see section 13	vacuum up spillage and collec s without risk. Following produc	t in suitable container
Environmental precautions	Avoid discharge into drains, water courses or	onto the ground.	
7. Handling and storage			
Precautions for safe handling	Avoid prolonged or repeated contact with skir usage instructions, see the product label.	n. Use only in well-ventilated ar	eas. For product
Conditions for safe storage,	Keep away from heat and sources of ignition.	Otara in a seal dry place out	f direct curlicht. Koor

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

US. OSHA Table Z-1 Limits for Air Components	Туре	Value	Form
calcium carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
white mineral oil (CAS 8042-47-5)	PEL	5 mg/m3	Mist.
US. OSHA Table Z-3 (29 CFR 1910 Components	.1000) Type	Value	Form
amorphous fumed silica (CAS 112945-52-5)	TWA	0.8 mg/m3	
		20 mppcf	
amorphous silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	
fumed silica (CAS 68611-44-9)	TWA	0.8 mg/m3	
		20 mppcf	
talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	0.1 mg/m3	Respirable.
		20 mppcf	
		2.4 mppcf	Respirable.
titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	Form
talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
white mineral oil (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Chen			
Components	Туре	Value	Form
amorphous fumed silica (CAS 112945-52-5)	TWA	6 mg/m3	
amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	
calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
white mineral oil (CAS 8042-47-5)	STEL	10 mg/m3	Mist.

Components	Туре	Value	Form
	TWA	5 mg/m3	Mist.
Biological limit values	No biological exposure limits noted for	r the ingredient(s).	
Exposure guidelines	Occupational Exposure Limits are no	t relevant to the current physi	cal form of the product.
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower should be available when handling this product.		
Individual protection measure	s, such as personal protective equipm	ent	
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin protection			
Hand protection	Wear protective gloves such as: Nitrile.		
Other	Wear suitable protective clothing.		
Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-conta breathing apparatus in confined spaces and for emergencies. Wear a dust mask if dus generated above exposure limits. Air monitoring is needed to determine actual employ levels.		ge. Use a self-contained ir a dust mask if dust is	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Always observe good personal hygie and before eating, drinking, and/or sr equipment to remove contaminants.		

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Paste.
Color	Off-white.
Odor	Mild.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	3110 °F (1710 °C) estimated
Initial boiling point and boiling range	450 °F (232.2 °C) estimated
Flash point	445 °F (229.4 °C) Cleveland Open Cup
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	< 0.01 kPa
Vapor density	Not available.
Relative density	1.21
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	500 °F (260 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.

Percent volatile

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Oxidizing material. Acids.
Hazardous decomposition products	Carbon oxides. Metal oxides.

11. Toxicological information

Information on likely routes of exposure

Information on likely routes of	n exposure	
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.	
Eye contact		
Ingestion		
Symptoms related to the physical, chemical and toxicological characteristics		
Information on toxicological	effects	
Acute toxicity	Not known.	
Product	Species	Test Results
Food Grade Anti-Seize & Lubrid	cating Compound	
Acute		
Oral		
LD50	Rat	197500 mg/kg
Components	Species	Test Results
amorphous fumed silica (CAS 1	12945-52-5)	
<u>Acute</u>		
Oral		
LD50	Rat	> 5000 mg/kg
amorphous silica (CAS 7631-86	3-9)	
<u>Acute</u>		
Oral		
LD50	Rat	> 22500 mg/kg
calcium carbonate (CAS 471-34	4-1)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation	Det	> 2 mm/l
LC50	Rat	> 3 mg/l
Oral		
LD50	Rat	6450 mg/kg
titanium dioxide (CAS 13463-67	7-7)	
<u>Acute</u>		
Dermal	Dabbit	> 10000 mg#rg
LD50	Rabbit	> 10000 mg/kg
Inhalation	Dabbit	
LC50	Rabbit	> 6.8 mg/l, 4 hours

Components	Species	Test Results	
Oral	_		
LD50	Rat	> 10000 mg/kg	
white mineral oil (CAS 8042-47-5)			
<u>Acute</u> Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Rat	> 5 mg/l, 4 hours	
<u>Chronic</u>			
Oral			
LD50	Rat	> 5000 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may c		
Serious eye damage/eye irritation	Direct contact with eyes may	cause temporary irritation.	
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected t		
Germ cell mutagenicity	mutagenic or genotoxic.	product or any components present at greater than 0.1% are	
Carcinogenicity	Not classifiable as to carcinog	genicity to humans.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
amorphous fumed silica (amorphous silica (CAS 76 white mineral oil (CAS 80 OSHA Specifically Regulate	7631-86-9)3 Not classifiable as to carcinogenicity to humans.		
Not regulated. US. National Toxicology Pro	ogram (NTP) Report on Carcin	logens	
Not listed.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be	harmful. Prolonged exposure may cause chronic effects.	
Further information	This product has no known ac	dverse effect on human health.	
12. Ecological information	า		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Persistence and degradability	No data is available on the de	egradability of any ingredients in the mixture.	
Bioaccumulative potential			
Bioconcentration factor (BC titanium dioxide	CF) 352		
Mobility in soil	No data available.		
Other adverse effects		tal effects (e.g. ozone depletion, photochemical ozone creation n, global warming potential) are expected from this component.	
13. Disposal consideratio	ns		
Disposal instructions	This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.		
Hazardous waste code	Not regulated.		

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

Food and Drug Not regulated. Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 313 (TRI reporting)

Not regulated.

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

calcium carbonate (CAS 471-34-1) talc (not containing asbestos fibers) (CAS 14807-96-6) titanium dioxide (CAS 13463-67-7)

US. Massachusetts RTK - Substance List

amorphous fumed silica (CAS 112945-52-5) amorphous silica (CAS 7631-86-9) calcium carbonate (CAS 471-34-1) talc (not containing asbestos fibers) (CAS 14807-96-6) titanium dioxide (CAS 13463-67-7) white mineral oil (CAS 8042-47-5)

US. Pennsylvania Worker and Community Right-to-Know Law

amorphous fumed silica (CAS 112945-52-5) amorphous silica (CAS 7631-86-9) calcium carbonate (CAS 471-34-1) talc (not containing asbestos fibers) (CAS 14807-96-6) titanium dioxide (CAS 13463-67-7) white mineral oil (CAS 8042-47-5)

US. Rhode Island RTK

calcium carbonate (CAS 471-34-1) talc (not containing asbestos fibers) (CAS 14807-96-6) titanium dioxide (CAS 13463-67-7) white mineral oil (CAS 8042-47-5)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

talc (not containing asbestos fibers) (CAS 14807-96-6) titanium dioxide (CAS 13463-67-7)

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s))	2.2 %
Consumer products (40 CFR 59, Subpt. C)	Not regulated
State	
Consumer products	This product is re

This product is regulated as an Anti-seize Lubricant (non-aerosol). This product is compliant for use in all 50 states. 2.2 %

OC content (CA)	2.2 %
OC content (OTC)	2.2 %

International Inventories

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Country(s) or region	Inventory name On in	ventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vos" indicatos that all compo	nents of this product comply with the inventory requirements administered by the governing of	ountry(c)

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	07-21-2015
Revision date	07-06-2018
Prepared by	Allison Yoon
Version #	02
Disclaimer	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries, Inc

Revision information

This document has undergone significant changes and should be reviewed in its entirety.



GOJO® ORIGINAL FORMULA™ Hand Cleaner

Version 1.1	SDS Number: 400000000198	Revision Date: 02/28/2018

SECTION 1. IDENTIFICATION

Product name	GOJO® ORIGINAL FORMULA™ Hand Cleaner	
Manufacturer or supplier's Company name of supplier	GOJO Industries, Inc.	
Address	One GOJO Plaza, Suite 500 Akron, Ohio 44311	
Telephone	1 (330) 255-6000	
Emergency telephone number	CHEMTREC 1-800-424-9300 CHEMTREC +1-703-527-3887: Outside USA & (CANADA

Recommended use of the chemical and restrictions on use

Recommended use	:	Skin-care
Restrictions on use	:	This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage	: Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: H318 Causes serious eye damage.



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Precautionary statements	 Prevention: P280 Wear eye protection/ face Response: P305 + P351 + P338 + P310 IF water for several minutes. Rem and easy to do. Continue rinsin CENTER or doctor/ physician. 	IN EYES: Rinse cautiously with ove contact lenses, if present	

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (%)
C11-15 Alkane/cycloalkane	64742-47-8	>= 30 - < 50
Mineral Oil (Paraffinum Liquidum)	8042-47-5	>= 10 - < 20
Trideceth-9	24938-91-8	>= 1 - < 5
Propylene Glycol	57-55-6	>= 1 - < 5
Petrolatum	8009-03-8	>= 1 - < 5
Sodium Hydroxymethylglycinate	70161-44-3	>= 0.1 - < 1
Chloroxylenol	88-04-0	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medica advice. 	I
If inhaled	: If inhaled, remove to fresh air. If symptoms persist, call a physician.	
In case of skin contact	: Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.	
In case of eye contact	 In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice. 	۶r
If swallowed	 If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention. 	
Most important symptoms and effects, both acute and delayed	: Causes serious eye damage.	
Protection of first-aiders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing	



Version 1.1

SDS Number: 40000000198

Revision Date: 02/28/2018

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
Unsuitable extinguishing media	:	None known.
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	 Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Material can create slippery conditions.
Environmental precautions	 Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	 Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: For personal protection see section 8.
	Do not swallow.



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	Avoid contact with eyes. Keep container closed when not i	n use.
Conditions for safe storage	 Keep in properly labelled container Keep container tightly closed in a place. Store in accordance with the parti 	dry and well-ventilated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

•		1		
Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
C11-15 Alkane/cycloalkane	64742-47-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA	200 mg/m3	ACGIH
			(as total	
			hydrocarbon	
			vapor)	
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Mineral Oil (Paraffinum Liquidum)	8042-47-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	ACGIH
		(Inhalable		
		fraction)		
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
Propylene Glycol	57-55-6	TWA	10 mg/m3	US WEEL
Petrolatum	8009-03-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	ACGIH
		(Inhalable		
		fraction)		
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0

Components with workplace control parameters

Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection Remarks	:	No special protective equipment required.
Eye protection	:	Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	No special measures necessary provided product is used correctly.
Protective measures	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to



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	the specific work-place. Ensure that eye flushing system located close to the working pla	
Hygiene measures	: Handle in accordance with good practice. Avoid contact with eyes.	d industrial hygiene and safety

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	opaque, white, yellow
Odour	:	solvent-like
рН	:	9.0, (20 °C)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	98 °C
Flash point	:	> 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	0.883 g/cm3
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Thermal decomposition	:	The substance or mixture is not classified self-reactive.
Viscosity Viscosity, kinematic	:	> 100000 mm2/s (20 °C)



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Explosive properties	: Not explosive	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Conditions to avoid	: No data available
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of Inhalation Eye contact Skin contact	of exposure
Acute toxicity	
Not classified based on availab	ble information.
Product:	
Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Components:	
C11-15 Alkane/cycloalkane:	
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	 LC50 (Rat): > 5.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials
Acute dermal toxicity	: LD50 (Rabbit): > 3,160 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Mineral Oil (Paraffinum Liqui Acute oral toxicity	dum): : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	 LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity



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Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or toxicity	Assessment: The substance or mixture has no acute dermal	
Trideceth-9: Acute oral toxicity	: LD50 (Rat): > 500 - < 2,000 mg	ŋ/kg	
Propylene Glycol: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg		
Acute inhalation toxicity	: LC50 (Rabbit): > 159 mg/l, > 5 Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance of inhalation toxicity		
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or toxicity	mixture has no acute dermal	
Petrolatum: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline Remarks: Based on data from		
Acute dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline Assessment: The substance of toxicity Remarks: Based on data from 	mixture has no acute dermal	
Sodium Hydroxymethylglyd			
Acute oral toxicity	: LD50 (Rat): 1,050 mg/kg		
Chloroxylenol: Acute oral toxicity	: Acute toxicity estimate : 500 m Method: Expert judgement Remarks: Based on harmonise on 1272/2008, Annex VI		
Acute inhalation toxicity	: LC50 (Rat): > 6.29 mg/l Test atmosphere: dust/mist		
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg		

Skin corrosion/irritation

Not classified based on available information.

Components:

C11-15 Alkane/cycloalkane:

Assessment: Repeated exposure may cause skin dryness or cracking.

Mineral Oil (Paraffinum Liquidum):

Species: Rabbit Result: No skin irritation



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Trideceth-9:

Species: Rabbit Result: No skin irritation

Propylene Glycol:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Petrolatum:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation Remarks: Based on data from similar materials

Sodium Hydroxymethylglycinate:

Species: Rabbit Result: Skin irritation

Chloroxylenol: Result: Skin irritation Remarks: Based on harmonised classification in EU regulati on 1272/2008, Annex VI

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

C11-15 Alkane/cycloalkane: Species: Rabbit Result: No eye irritation

Mineral Oil (Paraffinum Liquidum):

Species: Rabbit Result: No eye irritation

Trideceth-9:

Species: Rabbit Result: Irreversible effects on the eye

Propylene Glycol:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Petrolatum:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405 Remarks: Based on data from similar materials

Sodium Hydroxymethylglycinate:

Species: Rabbit Result: Irritation to eyes, reversing within 21 days

Chloroxylenol:



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Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Product:

Result: Does not cause skin sensitisation. Remarks: Patch test on human volunteers did not demonstrate sensitisation properties.

Components:

C11-15 Alkane/cycloalkane:

Test Type: Maximisation Test (GPMT) Exposure routes: Skin contact Species: Guinea pig Result: negative Remarks: Based on data from similar materials

Mineral Oil (Paraffinum Liquidum):

Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Result: negative

Propylene Glycol:

Test Type: Maximisation Test (GPMT) Exposure routes: Skin contact Species: Guinea pig Result: negative

Petrolatum:

Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Result: negative Remarks: Based on data from similar materials

Sodium Hydroxymethylglycinate:

Test Type: Maximisation Test (GPMT) Exposure routes: Skin contact Species: Guinea pig Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

Chloroxylenol:

Assessment: Probability or evidence of skin sensitisation in humans Remarks: Based on harmonised classification in EU regulati on 1272/2008, Annex VI

Germ cell mutagenicity

Not classified based on available information.

Components:

C11-15 Alkane/cycloalkane: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)



Version 1.1 SDS Number: 40000000198 Revision Date: 02/28/2018 Result: negative Genotoxicity in vivo Test Type: Chromosomal aberration Test species: Rat Application Route: Intraperitoneal injection **Result:** negative Remarks: Based on data from similar materials Mineral Oil (Paraffinum Liquidum): Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test **Result:** negative Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Test species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 **Result:** negative Remarks: Based on data from similar materials **Propylene Glycol:** Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative : Test Type: In vivo micronucleus test Genotoxicity in vivo Test species: Mouse Application Route: Intraperitoneal injection **Result:** negative Petrolatum: Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro **Result:** negative Remarks: Based on data from similar materials : Test Type: Mammalian erythrocyte micronucleus test (in vivo Genotoxicity in vivo cytogenetic assay) Test species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials Sodium Hydroxymethylglycinate: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) **Result:** negative Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with mammali an liver cells in vivo Test species: Rat Result: negative Chloroxylenol: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative



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Not classified based on available information.

Components:

Mineral Oil (Paraffinum Liquidum): Species: Rat Application Route: Ingestion Exposure time: 24 Months Result: negative

Propylene Glycol:

Species: Rat Application Route: Ingestion Exposure time: 2 Years Result: negative

Petrolatum:

Species: Rat Application Route: Ingestion Exposure time: 2 Years Result: negative

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoger by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

C11-15 Alkane/cycloalkane: Effects on fertility	 Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal development	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative
Mineral Oil (Paraffinum Liquid	um): · Test Type: One-generation reproduction toxicity study

Effects on fertility	: Test Type: One-generation reproduction toxicity study
	Species: Rat
	Application Route: Skin contact
	Result: negative



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Effects on foetal development	: Test Type: Embryo-foetal deve Species: Rat Application Route: Ingestion Result: negative	lopment
Propylene Glycol: Effects on fertility	: Species: Mouse Application Route: Ingestion Result: negative	
Effects on foetal development	: Test Type: Embryo-foetal deve Species: Mouse Application Route: Ingestion Result: negative	lopment
Petrolatum: Effects on fertility	: Test Type: Reproduction/Deve t Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from	lopmental toxicity screening tes similar materials
Effects on foetal development	: Test Type: Embryo-foetal deve Species: Rat Application Route: Skin contac Result: negative Remarks: Based on data from	t
Sodium Hydroxymethylg	glycinate:	
Effects on foetal development	: Species: Rat Application Route: Ingestion	

Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

C11-15 Alkane/cycloalkane: Species: Rat NOAEL: > 10.4 mg/l Application Route: inhalation (vapour) Exposure time: 90 d Remarks: Based on data from similar materials

Mineral Oil (Paraffinum Liquidum):

Species: Rat LOAEL: 160 mg/kg Application Route: Ingestion Exposure time: 90 d



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Species: Rat LOAEL: >= 1 mg/l Application Route: inhalation (dust/mist/fume) Exposure time: 4 w Method: OECD Test Guideline 412

Propylene Glycol:

Species: Rat NOAEL: 1,700 mg/kg Application Route: Ingestion Exposure time: 2 y

Petrolatum:

Species: Rat NOAEL: 5,000 mg/kg Application Route: Ingestion Exposure time: 2 y

Chloroxylenol:

Species: Rabbit LOAEL: 180 mg/kg Application Route: Skin contact Exposure time: 90 d

Aspiration toxicity

Not classified based on available information.

Components:

C11-15 Alkane/cycloalkane:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Mineral Oil (Paraffinum Liquidum):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

_

<u>Components:</u>	
C11-15 Alkane/cycloalkane:	
Toxicity to fish	 LL50 (Danio rerio (zebra fish)): > 250 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Acartia tonsa): > 3,193 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction
Toxicity to algae	 EL50 (Skeletonema costatum (marine diatom)): > 3,200 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction



sion 1.1	SDS Number: 40000000198 Revision Date: 02/28/2018		
	NOELR (Skeletonema costatum (marine diatom)): 993 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction		
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	 NOELR (Ceriodaphnia Dubia (water flea)): > 70 mg/l Exposure time: 8 d Test substance: Water Accommodated Fraction 		
Toxicity to bacteria	: EC50: > 100 mg/l Exposure time: 3 h		
Mineral Oil (Paraffinum Liqu	idum):		
Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 		
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 		
Toxicity to algae	NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
Toxicity to fish (Chronic toxicity)	: NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 28 d		
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 1,000 mg/l Exposure time: 21 d		
Trideceth-9: Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 1 - 10 mg/l Exposure time: 48 h		
Toxicity to algae	: EC50: > 1 - 10 mg/l Exposure time: 72 h		
Propylene Glycol: Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Ceriodaphnia Dubia (water flea)): 18,340 mg/l Exposure time: 48 h		
Toxicity to algae	: EC50 (Skeletonema costatum (marine diatom)): 19,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 201		
Toxicity to fish (Chronic toxicity)	: Chronic Toxicity Value: 2,500 mg/l Exposure time: 30 d		



sion 1.1	SDS Number: 40000000198 Revision Date: 02/28/20		
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Ceriodaphnia Dubia (water flea)): 29,000 mg/l Exposure time: 7 d		
Toxicity to bacteria	: NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h		
Petrolatum: Toxicity to fish	 LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials 		
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials		
Toxicity to algae	 NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials 		
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	 NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials 		
Sodium Hydroxymethylglyci Toxicity to fish	nate: : LC50: > 10 - 100 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia pulex (Water flea)): > 10 - 100 mg/l Exposure time: 48 h		
Toxicity to algae	: ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 10 - 100 mg/l Exposure time: 72 h		
Toxicity to bacteria	: EC50: > 100 mg/l Exposure time: 120 h		
Chloroxylenol: Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.76 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 7.7 mg/l Exposure time: 48 h		
M-Factor (Acute aquatic toxicity)	: 1		



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Persistence and degradabilit	у		
Components: C11-15 Alkane/cycloalkane: Biodegradability	 Result: Readily biodegradable. Biodegradation: 82 % Exposure time: 24 d Method: OECD Test Guideline 301F 		
Mineral Oil (Paraffinum Liqui Biodegradability	dum): : Result: Not readily biodegradable Biodegradation: 31 % Exposure time: 28 d		
Trideceth-9: Biodegradability	: Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d		
Propylene Glycol: Biodegradability	: Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 30)1F	
Petrolatum: Biodegradability	: Result: Not readily biodegradable Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 30 Remarks: Based on data from sin)1F	
Sodium Hydroxymethylglyci Biodegradability	nate: : Result: Readily biodegradable.		
Bioaccumulative potential			
Components: Propylene Glycol: Partition coefficient: n- octanol/water	: log Pow: -1.07		
Sodium Hydroxymethylglycin Partition coefficient: n- octanol/water	nate: : log Pow: < 3		
Chloroxylenol: Partition coefficient: n- octanol/water	: log Pow: 3.27		
Mobility in soil			
No data available			



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Product:		
Regulation	40 CFR Protection of Environment Stratospheric Ozone - CAA Sectio	
Remarks	This product neither contains, nor Class I or Class II ODS as defined Section 602 (40 CFR 82, Subpt. A	by the U.S. Clean Air Act

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	: Dispose of in accordance with local regulations.
Contaminated packaging	: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR Not regulated as a dangerous good IMDG-Code Not regulated as a dangerous good

National Regulations

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium Hydroxide	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	: Acute Health Hazard
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



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SARA 313	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
Clean Air Act		

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Propylene Glycol 57-55-6 1.7691 % This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

	C11-15 Alkane/cycloalkane	64742-47-8	30 - 50 %
	Mineral Oil (Paraffinum Liquidum)	8042-47-5	10 - 20 %
	Petrolatum	8009-03-8	1 - 5 %
	Sodium Hydroxymethylglycinate	70161-44-3	0.1 - 1 %
Pennsylvania I	Right To Know		
	C11-15 Alkane/cycloalkane	64742-47-8	30 - 50 %
	Water (Aqua)	7732-18-5	30 - 50 %
	Mineral Oil (Paraffinum Liquidum)	8042-47-5	10 - 20 %
	Oleic Acid	112-80-1	5 - 10 %
	Trideceth-9	24938-91-8	1 - 5 %
	Propylene Glycol	57-55-6	1 - 5 %
	Petrolatum	8009-03-8	1 - 5 %
	Sodium Hydroxide	1310-73-2	0.1 - 1 %
	Sodium Hydroxymethylglycinate	70161-44-3	0.1 - 1 %
New Jersey Rig	ght To Know		
	C11-15 Alkane/cycloalkane	64742-47-8	30 - 50 %
	Water (Aqua)	7732-18-5	30 - 50 %
	Mineral Oil (Paraffinum Liquidum)	8042-47-5	10 - 20 %
	Oleic Acid	112-80-1	5 - 10 %
	Trideceth-9	24938-91-8	1 - 5 %
	Propylene Glycol	57-55-6	1 - 5 %
	Sodium Hydroxymethylglycinate	70161-44-3	0.1 - 1 %

California Prop 65This product does not contain any chemicals known to State
of California to cause cancer, birth defects, or any other
reproductive harm.

The components of this product are reported in the following inventories:TSCA: On TSCA Inventory



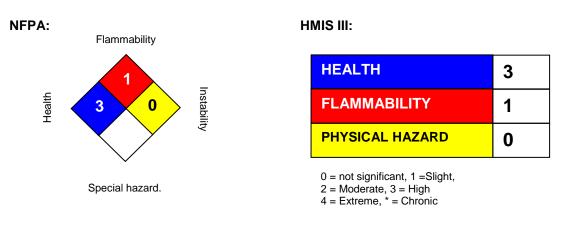
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AICS	: On the inventory, or in compliance	with the inventory
DSL	: On the inventory, or in compliance	with the inventory
ENCS	: On the inventory, or in compliance	with the inventory
ISHL	: On the inventory, or in compliance	with the inventory
KECI	: On the inventory, or in compliance	with the inventory
PICCS	: On the inventory, or in compliance	with the inventory
IECSC	: On the inventory, or in compliance	with the inventory
NZIoC	: On the inventory, or in compliance	with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information



Revision Date : 02/28/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



SAFETY DATA SHEET

Revision Date 13-Mar-2017

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier		
Product Name	Haynes Lubri-Film	
Other means of identification		
Product Code(s)	HLF	
Synonyms	Petroleum lubricant	
Recommended use of the chemica	I and restrictions on use	
Recommended Use	Lubricating grease for food processing equipment	
Uses advised against	No information available	
Supplier's details		
Supplier Address Haynes Mfg Co 24142 Detroit Road Westlake, OH 44145 TEL: 440-871-2188		
Emergency telephone number		
Emergency Telephone Number	440-871-2188 x195 800-992-2166	
	2. HAZARDS IDENTIFICATION	
<u>Classification</u>		
This chemical is not considered haza	rdous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.12	200).
Not classified		
GHS Label elements, including pre	ecautionary statements	
	Emergency Overview	
Signal Word	None	
The product contains no sul	bstances which at their given concentration are considered to be hazardous to health	
Appearance Transparent grease.	Physical State Solid (compressed), Odor Od Grease.	orless.
Precautionary Statements		

General Advice • None

None

Storage

None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

May cause skin irritation.

7% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Petroleum lubricant

Chemical Name	CAS-No	Weight %	Trade secret
White mineral oil	8042-47-5	60-100	*
*The superior of the second seco			

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If material is hot, treat for thermal burns and seek immediate medical attention.	
Skin Contact	Wash off with warm water and soap. If material is hot and thermal burns are sustained, submerge injured area in cold water. Do not apply ice to injured area. If burns are severe and/or cover a large area of skin, seek immediate medical attention.	
Inhalation	Not an expected route of exposure. Clear passages and remove to fresh air.	
Ingestion	Clean mouth with water and afterwards drink plenty of water. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.	
Most important symptoms/effects, acute and delayed		

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

No information available.

Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge

None. None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective e	quipment and emergency procedures
Personal Precautions	Avoid contact with eyes. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Other Information	Material can create slippery conditions.
Environmental Precautions	
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.
Methods and materials for contain	ment and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Handling	Handle in accordance with good industrial hygiene and safety practice. Refer to Section 8. Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation. If spilled, take caution, as material can cause surfaces to become very slippery.
Conditions for safe storage, includ	ing any incompatibilities
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible Products	None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemica	l Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
White min	neral oil	TWA: 5 mg/m ³ inhalable	TWA: 5 mg/m ³	IDLH: 2500 mg/m ³
8042-4	47-5	particulate matter excluding metal	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
		working fluids, highly & severely	· · · -	STEL: 10 mg/m ³
		refined		

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Showers Eyewash stations Ventilation systems
v on manon oyotonno

Individual protection measures, such as personal protective equipment

Eye/Face Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Odor	Solid (compressed), Grease. Odorless.	Appearance Odor Threshold	Transparent grease. No information available.
Property pH Melting Point/Range Boiling Point/Boiling Range Flash Point Evaporation rate Flammability (solid, gas) Flammability Limits in Air upper flammability limit lower flammability limit lower flammability limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition coefficient: n-octanol Autoignition Temperature Decomposition Temperature Viscosity	Values No data available 93 °C / 200 °F No data available > 148 °C / > 300 °F No data available No data available	Remarks/ - Met None known None known	<u>hod</u>
Flammable Properties	Not flammable		
Explosive Properties Oxidizing Properties	No data available No data available		
Other information			
VOC Content (%)	No data available		

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Ignitions sources - heat, sparks and open flames.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂). Hazardous decomposition products due to incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Inhalation Eye Contact Skin Contact Ingestion	There is no data available for this product Inhalation of aerosols: May cause irritation of respiratory tract. May cause slight irritation. Substance may cause slight skin irritation. Potential for aspiration if swallowed. May cause gastrointestinal discomfort if consumed in large amounts.
Component Information	No information available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
Delayed and immediate effects and	also chronic effects from short and long term exposure
Sensitization Mutagenic Effects Carcinogenicity	No information available. No information available. The table below indicates whether each agency has listed any ingredient as a carcinogen. Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
White mineral oil	A2			

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

Reproductive Toxicity			
STOT - single exposure			
STOT - repeated exposure			
Aspiration Hazard			

No information available. No information available. No information available. May be harmful if swallowed and enters airways.

Numerical measures of toxicity - Product

Unknown acute toxicity 7% of the mixture consists of ingredient(s) of unknown toxicity. The following values are calculated based on chapter 3.1 of the GHS document: Not classified

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated. May cause long lasting harmful effects to aquatic life.

Chemical I	Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
White mine	ral oil		LC50 96 h: > 10000 mg/L		

8042-47-5 (Lepomis macrochirus)

Persistence and Degradability

Bioaccumulation

No information available. Bioaccumulative potential.

Chemical Name	Log Pow
White mineral oil	>6

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

 Waste Disposal Methods
 This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

 Contaminated Packaging
 Do not re-use empty containers.

 14. TRANSPORT INFORMATION

DOT

Not regulated

15. REGULATORY INFORMATION

 International Inventories
 Complies

 TSCA
 Complies

 DSL
 All components are listed either on the DSL or NDSL.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

<u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and

Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
White mineral oil	X	X	Х		Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 0	Flammability 1	Instability 0	Physical and Chemical Hazards -	
HMIS	Health Hazard 0	Flammability 1	Physical Hazard 0	Personal Protection X	

Issuing Date	21-Feb-2014
Revision Date	13-Mar-2017
Revision Note	Not applicable.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET



BG In-Force (Aerosol)

1. Product and company identification

Manufacturer	: BG Products Inc. 701 S. Wichita Street Wichita, KS, 67213, USA www.bgprod.com
Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	
Lubricants and additives	
MSDS #	: 438
Validation date	: 2/7/2013.
Responsible name	: Kolin Anglin, Environmental Coordinator 316-265-2686 msds@bgprod.com
In case of emergency	: (800) 424-9300 (CHEMTREC)
2. Hazards iden	itification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE AEROSOLS - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 30%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Flammable aerosol.
Precautionary statements	
Prevention	: Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
Response	: Not applicable.
Storage	: Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of identification	:	Not available.
CAS number/other identifiers		
CAS number	:	Not applicable.
Product code	÷	438

Date of issue/Date of revision

3. Composition/information on ingredients

Ingredient name	%	CAS number
Kerosine (petroleum)	15 - 40	8008-20-6
ethyl acetate	1 - 5	141-78-6
Distillates (petroleum), hydrotreated heavy naphthenic	1 - 5	64742-52-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. First aid measures

Description of necess	ary first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<u>Most important sympt</u>	oms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing

Ingestion : No specific data. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large	
	quantities have been ingested or inhaled.	2

Date of issue/Date of revision

Skin contact

: No specific data.

: 3/15/2010.

BG In-Force (Aerosol)

4. First aid measures

Specific treatments

Protection of first-aiders

: No specific treatment.

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	-	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact
	same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
Kerosine (petroleum) Ethyl acetate	 NIOSH REL (United States, 6/2009). TWA: 100 mg/m³ 10 hours. ACGIH TLV (United States, 3/2012). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours. ACGIH TLV (United States, 3/2012). TWA: 400 ppm 8 hours. TWA: 1440 mg/m³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 400 ppm 8 hours. TWA: 1400 mg/m³ 8 hours. NIOSH REL (United States, 6/2009). TWA: 400 ppm 10 hours. TWA: 1400 mg/m³ 10 hours. OSHA PEL (United States, 6/2010). TWA: 400 ppm 8 hours. TWA: 1400 mg/m³ 10 hours. 	
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH TLV (United States, 3/2012). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction	2'
ate of issue/Date of revision : 2/7/2013. Date of previous issue	: 3/15/2010. Version : 2	

BG In-Force (Aerosol)

8. Exposure controls/personal protection

	NIOSH REL (United States, 6/2009). TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist OSHA PEL (United States, 6/2010). TWA: 5 mg/m ³ 8 hours.
Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. Physical and chemical properties

Physical state	: Liquid. [Aerosol.]	
Flash point	: Not available.	
Auto-ignition temperature	: Not available.	
Flammable limits	: Not available.	
Color	: Green.	
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9. Physical and chemical properties

Odor	: Solvents
рН	: Not available.
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Specific gravity	: 0.8807
Vapor pressure	: Not available.
Vapor density	: Not available.
Odor threshold	: Not available.
Evaporation rate	: Not available.
Solubility	: Very slightly soluble in the following materials: cold water and hot water.
Density	: 7.345 (lbs/gal)
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: >30 kJ/g
Ignition distance	: 15 cm

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid Incompatible materials	Avoid all possible sources of ignition (spark or flame).No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Kerosine (petroleum)	LD50 Oral	Rat	15 g/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kerosine (petroleum)	Skin - Moderate irritant	Rabbit	-	0.5 Mililiters	-
, , , , , , , , , , , , , , , , , , ,	Skin - Moderate irritant	Rabbit	-	24 hours 100 Percent	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

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Section 11. Toxicological information

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Category	Route of exposure	Target organs
Ethyl acetate		Category 3	Not applicable.	Narcotic effects
Specific target organ toxici Not available.	ty (repeated exposure)			
Aspiration hazard Not available.				
Information on the likely routes of exposure	: Not available.			
Potential acute health effects	<u>s</u>			
Eye contact	: No known significant	effects or critical hazar	ds.	
Inhalation	: No known significant	effects or critical hazar	ds.	
Skin contact	: No known significant	effects or critical hazar	ds.	
Ingestion	: No known significant	effects or critical hazar	ds.	
Symptoms related to the phy	vsical, chemical and tox	icological characteris	tics	
Eye contact	: Adverse symptoms n irritation redness	nay include the followin	g:	
Inhalation	: Adverse symptoms n respiratory tract irrita coughing	•	g:	
Skin contact	: No specific data.			
Ingestion	: No specific data.			
Delayed and immediate effect	cts and also chronic effe	ects from short and lo	ong term exposure	
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health eff	ects			
Not available.				
General	: No known significant	effects or critical hazar	ds.	2
				2
Date of issue/Date of revision	: 2/7/2013. Date of p	previous issue : 3/1	5/2010. V	Version : 2 7

Section 11. Toxicological information

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of toxic	<u>ity</u>

Acute toxicity estimates

Not available.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water Acute LC50 750000 µg/l Fresh water Acute LC50 154000 µg/l Fresh water Acute LC50 212500 µg/l Fresh water Chronic NOEC 2400 µg/l Fresh water Chronic NOEC 75.6 mg/l Fresh water	Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia cucullata Fish - Heteropneustes fossilis Daphnia - Daphnia magna Fish - Pimephales promelas - Embryo	96 hours 48 hours 48 hours 96 hours 21 days 32 days

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ethyl acetate	0.73	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

•			
	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	<u>Limited quantity</u> Yes.	Emergency schedules (EmS) F-D, S-U Remarks Limited quantity	Passenger and CargoAircraftAircraftQuantitylimitation:75kgCargoAircraftOnlyQuantitylimitation:150kgLimitedQuantities -PassengerAircraftQuantitylimitation:30kg
Special precautio	upright and sec	in user's premises: always transport ure. Ensure that persons transporting ident or spillage.	
Transport in bulk to Annex II of MA 73/78 and the IBC	according : Not available. RPOL		
15. Regula	atory information		
U.S. Federal regu	lations : TSCA 8(a) CDF	R Exempt/Partial exemption: Not det	ermined
-			

United States inventory (TSCA 8b): Not determined.

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name		Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard 280
Date of issue/Date of revision	: 2/7/2013.	Date of previous i	ssue : 3/18	5/2010.	Version :	2 9/11

15. Regulatory information

is. Regulatory in						
Kerosine (petroleum)		Yes.	No.	No.	Yes.	Yes.
ethyl acetate	Distillates (petroleum), solvent-dewaxed		No.	No.	No.	Yes.
Distillates (petroleum), solv heavy paraffinic			No.	No.	No.	Yes.
Distillates (petroleum), hydrotreated heavy naphthenic		No.	No.	No.	Yes.	Yes.
State regulations			·			
Massachusetts	: The followi	ng components	are listed: KE	ROSINE; ETH	/L ACETATE	
New York	: The followi	ng components	are listed: Eth	yl acetate		
New Jersey	The following components are listed: KEROSENE; FUEL OIL #1; ETHYL ACETATE; ACETIC ACID, ETHYL ESTER; MINERAL OIL (UNTREATED and MILDLY TREATED) MINERAL OIL (UNTREATED and MILDLY TREATED)					
Pennsylvania	 The following components are listed: KEROSINE (PETROLEUM); ACETIC ACID ETHYL ESTER 					
United States inventory (TSCA 8b)	: Not determ	ined.				
<u>Canada</u>						
WHMIS (Canada)		Flammable aero 3: Material causir		effects (Toxic)		
<u>Canadian lists</u>						
Canadian NPRI	: The followi	ng components	are listed: Eth	yl acetate		
CEPA Toxic substances	: None of the	e components ar	e listed.			
Canada inventory	: Not determ	ined.				
This product has been class and the MSDS contains all t						s Regulations
International regulations						
International lists		nventory (AICS entory (IECSC):	•			

ernational lists	: Australia inventory (AICS): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory: Not determined.
	Korea inventory: Not determined.
	Malaysia Inventory (EHS Register): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan inventory (CSNN): Not determined.

16. Other information

Hazardous Material Information System (U.S.A.)

Health	2
Flammability	4
Physical hazards	2
	_

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>mistory</u>	
Date of printing	: 2/7/2013.
Date of issue/Date of revision	: 2/7/2013.
Date of previous issue	: 3/15/2010.
Version	: 2
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

History

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET



BG In-Force (Aerosol)

Product and company identification 1.

Manufacturer	

: BG Products Inc. 701 S. Wichita Street Wichita, KS, 67213, USA www.bgprod.com

alovent identified upon and uses advised against

Relevant identified uses of	f the substance or mixture and uses advised against
Identified uses	
Lubricants and additives	
MSDS #	: 438
Validation date	: 3/30/2016
Responsible name	: Kolin Anglin, Environmental Coordinator 316-265-2686 msds@bgprod.com
In case of emergency	: (800) 424-9300 (CHEMTREC)
2. Hazards ide	ntification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas ASPIRATION HAZARD - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 40%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways.
Precautionary statements	<u>8</u>
Prevention	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
Response	: IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
Storage	 Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Composition/information on ingredients 3.

Substance/mixture	1	Mixture
Other means of	÷	Not available.
identification		
CAS number/other identifiers		
CAS number	÷	Not applicable.

Product code : 438

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

First aid measures 4.

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providin aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effect persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar tie, belt or waistband.	cts
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mout with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to a unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar tie, belt or waistband.	n d n
Most important symptoms	fects, acute and delayed	
Potential acute health eff	<u>s</u>	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: May be fatal if swallowed and enters airways.	
<u>Over-exposure signs/syn</u>	<u>oms</u>	
Eye contact	: Adverse symptoms may include the following: irritation redness	
Inhalation	 Adverse symptoms may include the following: respiratory tract irritation coughing 	
Skin contact	: No specific data.	
Ingestion	: Adverse symptoms may include the following:	
	nausea or vomiting	284
Date of issue/Date of revision	: 3/30/2016 Date of previous issue : No previous validation Version : 1 2	2/11

BG In-Force (Aerosol)

4. First aid measures Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	 Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact
	information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
None.		
Appropriate engineering controls	or mist, use process enclosure to keep worker exposure to air limits. The engineering control	tion. If user operations generate dust, fumes, gas, val s, local exhaust ventilation or other engineering contro borne contaminants below any recommended or statu s also need to keep gas, vapor or dust concentrations s. Use explosion-proof ventilation equipment.
Environmental exposure controls	they comply with the requireme	vork process equipment should be checked to ensure ents of environmental protection legislation. In some or engineering modifications to the process equipment issions to acceptable levels.
ndividual protection meas	<u>ures</u>	
Hygiene measures	eating, smoking and using the Appropriate techniques should	te thoroughly after handling chemical products, before lavatory and at the end of the working period. be used to remove potentially contaminated clothing. efore reusing. Ensure that eyewash stations and safe station location.

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BG In-Force (Aerosol)

8. Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields. (EN 166)
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Solvent. Chemical-resistant gloves. (EN 374) thickness (minimum) (0.4 mm)
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: Wear work clothing with long sleeves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective shoes. (EN ISO 20345)
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: If operating conditions cause high gas concentrations to be produced or any recommended or statutory exposure limit is exceeded, use an airfed respirator or self-contained breathing apparatus.

9. Physical and chemical properties

Physical state	: Liquid. [Aerosol.]		
Flash point	: Not available.		
Auto-ignition temperature	: Not available.		
Flammable limits	: Not available.		
Color	: Green. [Dark]		
Odor	: Solvents		
рН	: Not available.		
Boiling/condensation point	: Not available.		
Melting/freezing point	: Not available.		
Specific gravity	: 0.881		
Vapor pressure	: Not available.		
Vapor density	: Not available.		
Odor threshold	: Not available.		
Evaporation rate	: Not available.		
Solubility	: Very slightly soluble in the following materials: cold water and hot water.		
VOC content	: <25 % (w/w)		
Aerosol product			
Type of aerosol	: Spray		
Heat of combustion	: 33 kJ/g	287	
Date of issue/Date of revision	: 3/30/2016 Date of previous issue : No previous validation Version : 1	5/11	

9. Physical and chemical properties

Ignition distance

: 15 cm

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
0 11 AA T 1	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name Extremely flammable aerosol.			Result	Result ASPIRATION HAZARD - Category 1		
			ASPIRATION HAZ			
Information on the likely routes of exposure	: Not available	2.	I			
Potential acute health effect	<u>ts</u>					
Eye contact	: No known significant effects or critical hazards.					
Inhalation	: No known significant effects or critical hazards.					
Skin contact	: No known significant effects or critical hazards.					
Ingestion	: May be fatal if swallowed and enters airways.					
Symptoms related to the physical, chemical and toxicological characteristics					288	
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	3
Eye contact :	Adverse symptoms may include the following: irritation redness
Inhalation :	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact :	No specific data.
Ingestion :	Adverse symptoms may include the following: nausea or vomiting
Delayed and immediate effects	and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate : effects	Not available.
Potential delayed effects :	Not available.
Long term exposure	
Potential immediate : effects	Not available.
Potential delayed effects :	Not available.
Potential chronic health effect	<u>s</u>
Not available.	
General :	No known significant effects or critical hazards.
Carcinogenicity :	No known significant effects or critical hazards.
Mutagenicity :	No known significant effects or critical hazards.
Teratogenicity :	No known significant effects or critical hazards.
Developmental effects :	No known significant effects or critical hazards.
Fertility effects :	No known significant effects or critical hazards.
Numerical measures of toxicity	
Acute toxicity estimates	
Not available.	

12. Ecological information

Toxicity Not available. Persistence and degradability Not available. Bioaccumulative potential Not available. Mobility in soil Soil/water partition coefficient (Koc) Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the server unlose fully compliant with the requirements of all authorities with incidenter.
	the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	<u>Limited quantity</u> Yes.	Emergency schedules (EmS) F-D, S-U Remarks Limited quantity	Passenger and Cargo <u>Aircraft</u> Quantity limitation: 75 kg <u>Cargo Aircraft Only</u> Quantity limitation: 150 kg <u>Limited Quantities -</u> <u>Passenger Aircraft</u> Quantity limitation: 30 kg

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304

Composition/information on ingredients

No products were found.

Date of issue/Date of revision

: 3/30/2016 Date of previou

Date of previous issue

15. Regulatory information

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Distillates (petroleum), hydrotreated heavy naphthenic	No.	No.	No.	Yes.	Yes.
Distillates (petroleum), hydrotreated light	Yes.	No.	No.	No.	Yes.
ethyl acetate	Yes.	No.	No.	No.	Yes.

State regulations

Massachusetts	: The following components are listed: ETHYL ACETATE
New York	: The following components are listed: Ethyl acetate
New Jersey	: The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED); ETHYL ACETATE; ACETIC ACID, ETHYL ESTER
Pennsylvania	: The following components are listed: ACETIC ACID ETHYL ESTER
United States inventory (TSCA 8b)	: All components are listed or exempted.
<u>Canada</u>	
WHMIS (Canada)	: Class B-5: Flammable aerosol.
<u>Canadian lists</u>	
Canadian NPRI	: The following components are listed: Hydrotreated light distillate; Ethyl acetate
CEPA Toxic substances	: None of the components are listed.
Canada inventory	: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

Chemical Weapon Co Not listed.	nvention List Schedules I, II & III Chemicals
Montreal Protocol (An Not listed.	<u>inexes A, B, C, E)</u>
Stockholm Convention Not listed.	<u>n on Persistent Organic Pollutants</u>
Rotterdam Conventio Not listed.	<u>n on Prior Inform Consent (PIC)</u>
UNECE Aarhus Protoe Not listed.	col on POPs and Heavy Metals
International lists	
National inventory	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.

China : All components are listed or exempted.

15. Regulatory information

Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.

16. Other information

Hazardous Material Information System (U.S.A.)



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National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>		
Date of printing	: 3/30/2016	
Date of issue/Date of revision	: 3/30/2016	
Date of previous issue	: No previous validation	
Version	: 1	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods	
	LogPow = logarithm of the octanol/water partition coefficient	292
Date of issue/Date of revision	: 3/30/2016 Date of previous issue : No previous validation Version : 1	10/11

16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

References

: Not available.

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Safety Data Sheet

Issue Date 12-Aug-2013	Revision Date: 01-Oct-2017	Version 1
	1. IDENTIFICATION	
Product Identifier Product Name	Industrial Grade Silicone – Acetoxy Cure – Clear, White & Colors	
Other means of identification SDS #	RD-0080A	
Product Code	08160I, 08260I Series	
Recommended use of the chemical and restrictions on useRecommended UseSilicone Sealant.		
Details of the supplier of the safety data sheet Supplier Address Red Devil, Inc. 4175 Webb Street Pryor, Oklahoma 74361 www.reddevil.com		
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	918-825-5744 Fax: 918-825-5761 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)	
2. HAZARDS IDENTIFICATION		

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation



Appearance Clear/opaque or colored paste

Physical State Paste

Odor Acetic Acid Odor (Vinegar odor)

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Get medical attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydroxy-terminated Dimethyl siloxane	70131-67-8	>50
Non-hazardous ingredients *	Proprietary	>10
Amorphous silica (glass)	7631-86-9	<13
Polydimethylsiloxane	63148-62-9	<10
Methyltriacetoxysilane	4253-34-3	<6
Titanium Dioxide	13463-67-7	<5
Ethyltriacetoxysilane	17689-77-9	<6

* Unlisted ingredients are not considered hazardous under the OSHA GHS Hazard Communication Standard (29 CFR 1910.1200). (Methyltriacetoxysilane) Observe limits for acetic acid formed during curing on exposure to water or humid air. (Silica, amorphous; Titanium Dioxide) Inhalation of particulates unlikely due to product's physical state.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelid(s) open. Obtain medical attention.
Skin Contact	No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.
Inhalation	If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.
Ingestion	Rinse mouth thoroughly with water. If irritation or discomfort occurs, obtain medical advice.
Most important symptoms and	l effects
Symptoms	Causes skin irritation. May cause nose, throat & respiratory tract irritation. Direct contact

with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat according to person's condition & specifics of exposure.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small FireUse carbon dioxide (CO2), dry chemical or water spray.Large FireUse dry chemical, foam or water spray.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products Carbon oxides & traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus & protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Observe all personal protection equipment recommendations described in Sections 5 & 8.
Environmental Precautions	See Section 12 for additional Ecological Information.
Methods and material for containm	ent and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so. Use absorbent material to contain spill.
Methods for Clean-Up	Wipe up or scrape up & contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state & federal laws & regulations may apply to releases & disposal of this material as well as those materials & items employed in the cleanup of releases. You will need to determine which federal, state & local laws & regulations are applicable. Sections 13 & 15 of this SDS provide information regarding certain federal & state requirements.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Avoid contact with skin and eyes. Product evolves acetic acid (HOAc) when exposed to water or humid air.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container closed & store away from water or moisture.

Incompatible Materials Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form as described in Section 8.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Exposure guidelines / protective equipment are for routine handling and accidental spills

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Amorphous silica (glass) 7631-86-9	-	(vacated) TWA: 6 mg/m ³ <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO2) mg/m ³ TWA	IDLH: 3000 mg/m ³ TWA: 6 mg/m ³
Titanium Dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³

Other Information	Acetic acid is formed upon contact w/ water or humid air. Provide adequate ventilation to
	control exposures within guidelines of OSHA PEL: TWA 10 ppm & ACGIH TLV: TWA 10
	ppm, STEL 15 ppm.

Appropriate engineering controls

Engineering Controls	Ventilation must be adequate to maintain the ambient workplace atmosphere below the
	exposure limit(s) outlined in the SDS. Good general ventilation should be sufficient.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses as a minimum for protection.

- Skin and Body Protection Wear suitable protective clothing.
- **Respiratory Protection** No special equipment needed.

General Hygiene Considerations Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. Handle in accordance with good industrial hygiene and safety practice. Wash @ mealtime & end of shift. Contaminated clothing & shoes should be removed as soon as practical & thoroughly cleaned before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance	Paste Clear/opaque or colored paste	Odor	Acetic Acid Odor (Vinegar odor)
Color	Various	Odor Threshold	Not determined
<u>Property</u> pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate	<u>Values</u> Not determined Not determined Not determined Not applicable Not determined	<u>Remarks • Method</u>	

Flammability (Solid, Gas)	Not determined
Upper Flammability Limits	Not determined
Lower Flammability Limit	Not determined
Vapor Pressure	Not determined
Vapor Density	Not determined
Specific Gravity	~1.04 @ 25 °C (77 °F)
Water Solubility	Not determined
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined
Additional Information	Note: The above information is not intended for use in preparing product specifications
VOC Content (%)	< 3%/wt (< 40 g/L)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Incompatible Materials.

Incompatible Materials

Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form as described in Section 8.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides & traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde, Nitrogen oxides & metal oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation. Can be absorbed through the skin.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Can be harmful if swallowed.
Component Information	

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Amorphous silica (glass) 7631-86-9	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat)1 h
Polydimethylsiloxane 63148-62-9	> 17 g/kg (Rat)	>2 g/kg (Rabbit)	-
Methyltriacetoxysilane 4253-34-3	= 2060 mg/kg (Rat)	-	-
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. Titanium dioxide is a possible carcinogen when it appears as a respirable dust.

Chemical Name	ACGIH	IARC	NTP	OSHA
Amorphous silica (glass) 7631-86-9		Group 3		
Titanium Dioxide 13463-67-7		Group 2B		х

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Amorphous silica (glass)	440: 72 h	5000: 96 h Brachydanio rerio		7600: 48 h Ceriodaphnia
7631-86-9	Pseudokirchneriella subcapitata mg/L EC50	mg/L LC50 static		dubia mg/L EC50

Persistence/Degradability

Complete information is not yet available

Bioaccumulation

Complete information is not yet available

Mobility

Complete information is not yet available

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
IATA_	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories

Not determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313 Not determined

US State Regulations

<u>California Proposition 65</u> This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Titanium Dioxide - 13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Amorphous silica (glass) 7631-86-9	X	X	Х
Titanium Dioxide 13463-67-7	X	X	Х

16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability	Instability 0	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 1	Flammability 0	Physical Hazards 0	Personal Protection B- Safety Glasses, Gloves

Issue Date	12-Aug-2013
Revision Date:	01-Oct-2017
Revision Note	New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture

Product Name:	Key-Tite
Product Use:	Thread sealant
Manufacturer:	South Coast Products
	20 Southbelt Industrial Dr
	Houston, TX 77047 USA
	+1 713 225 0048
Emergency telephone number:	+1 813 248 0585, 24 hours
	Refer to K159199
F-mail address for questions	

E-mail address for questions regarding this SDS:

sharons@socousa.com

2. HAZARDS IDENTIFICATION

GHS Classification

Not classified according to GHS.

- GHS Label Elements
- Symbol(s) None

Signal Word None

Hazard Statements None

Other hazards which do not result in classification

High pressure injection under skin is a medical emergency.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Nonhazardous paste containing highly refined mineral oil, vegetable oils, resins and mineral fillers.

4. FIRST AID MEASURES

Inhalation: Move exposed person to fresh air. Get medical attention if symptoms occur. No symptoms expected.

- Ingestion: Wash out mouth with water. Do not induce vomiting. Get medical attention if nausea or stomach pains occur.
- **Skin contact:** Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if irritation symptoms occur. High pressure injection under skin requires immediate medical attention.
- **Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 5 minutes, keeping eyelids open. Get medical attention if redness or irritation persists.

5. FIRE-FIGHTING MEASURES

Suitable media: Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable:	Do not use water jet.
Hazardous combustion	Carbon monoxide, carbon dioxide, products of incomplete
products:	hydrocarbon combustion.
Special protective equipment	Fire-fighters should wear appropriate protective equipment and self-
for fire-fighters:	contained breathing apparatus with a full face-piece operated in
	positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear appropriate personal protection equipment (see section 8).
Environmental precautions:	Recover free product. If small amount, clean residue with soap and
	water. Otherwise use suitable oil adsorbent. Dispose of material in
	accordance with all regulations. Keep product out of sewers and
	watercourses. Advise authorities if large amounts of product enters
	waterways or extensive land areas.

7. HANDLING AND STORAGE

Handling:	Wear appropriate personal protection equipment (see section 8). Do not eat, drink or smoke when using. Wash thoroughly after handling. Follow good hygiene and housekeeping practices.
Storage:	Store in cool dry area in original or equivalent container in accordance with all regulations. Do not expose to extreme heat or flame. Store below 65°C (150°F), away from strong oxidizers and acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Eye/face protection:	Use with adequate ventilation. Safety glasses. Ensure eye bath is to hand.
Hand protection:	Protective gloves if prolonged or repeated contact is unavoidable.
Skin protection:	No additional protection required beyond normal industrial attire is required.
Respiratory protection:	No special measures required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor:	Dark green semi-solid, mild odor
pH:	Not applicable
Flash point:	121°C (250°F) (Cleveland open cup)
Evaporation rate:	No data
Upper flammability limit:	No data
Lower flammability limit:	No data
Vapor pressure:	No data
Vapor density:	No data
Relative density:	1.4
Solubility:	Insoluble in water, soluble in alcohols and petroleum distillates

Viscosity:Cone penetration (ASTM D217) 395-405Volatile organic content:88 g/L (4% by weight)

10. STABILITY AND REACTIVITY

Chemical stability:	Stable
Conditions to avoid:	Extreme heat
Incompatible materials:	Strong oxidizers
Hazardous decomposition	
products:	Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Skin corrosion/irritation: Serious eye damage/irritation: Sensitization: Germ cell mutagenicity:	Tests on similar materials indicate low acute toxicity. No ingredients reported to be irritating or corrosive to skin. May cause mild redness and discomfort on contact with eyes. No ingredients reported to be respiratory or skin sensitizers. No ingredients reported to have mutagenic effects.
Carcinogenicity:	No ingredients reported to have carcinogenic effects. No ingredients listed as carcinogenic by ACGIH, OSHA, IARC, or NTP. Highly refined base oil has <3% DMSO extract as measured by IP346.
Reproductive toxicity:	No ingredients reported to have reproductive effects.
STOT – single exposure:	No ingredients reported to have specific target organ toxicity single exposure effects.
STOT – repeated exposure:	Product may remove oils from skin with repeated or prolonged exposure.
Aspiration hazard:	No ingredients reported to meet aspiration hazard classification.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No information available for this product regarding toxicity in the environment.
Persistence/degradability:	Not determined for product. Vegetable oil components are readily biodegradable. Mineral oil component is not expected to be readily biodegradable, at <10% in 28 days.
Mobility:	Sinks in water. No data available on mobility in soil.

13. DISPOSAL CONSIDERATIONS

Waste disposal:	Generation of waste should be avoided or minimized where possible.		
	Empty containers may contain residue. Dispose of non-recyclable		
	material via licensed waste disposal operator. Follow all applicable		
	regulations.		

14. TRANSPORT INFORMATION

Transport information:

This product is not regulated for transport by USDOT, ADR/RID, IMDG, IATA/ICAO.

15. REGULATORY INFORMATION

US Regulations

No ingredient in this product is listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4) United States inventory (TSCA): All ingredients listed or exempt.

State Regulations

California Prop 65: No ingredient listed. Massachusetts Substances: No ingredient listed. New Jersey Hazardous Substances: No ingredient listed. Pennsylvania RTK Hazardous Substances: No ingredient listed.

International regulations

Canada: WHMIS Classification: Not controlled. **WHMIS**: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. **Canada DSL/NDSL**: All ingredients listed or exempt.

Europe inventory (EINECS): All ingredients listed or exempt. Australia inventory (AICS): Some ingredients are not listed. China inventory (IECSC): Some ingredients are not listed. Japan inventory: Some ingredients are not listed. Korea inventory: Some ingredients are not listed. New Zealand Inventory of Chemicals (NZIoC): Some ingredients are not listed. Philippines inventory (PICCS): Some ingredients are not listed.

16. OTHER INFORMATION

Hazardous Material Information System (USA):

HEALTH	0
FIRE	1
REACTIVITY	0
PERSONAL PROTECTION	В

National Fire Protection Association (USA):



Revision information: Original GHS issue 10 Dec 2014. Rev 1: corrected flash point and VOC level in Section 9. Rev 2: reviewed with no changes.

END OF SAFETY DATA SHEET

Date issued: 13 Mar 2018 Revision no.: 2

A03408004

Section 1. Identification

Product name	KRYLON® QUIK-MARK™ Water-Based Inverted Marking Paint (Fluorescent) Fluorescent Orange	
Product code	: A03408004	
Other means of	: Not available.	
identification		
Product type	: Aerosol.	
Relevant identified uses of t	he substance or mixture and uses advised against	
Paint or paint related material.		
Manufacturer	: Krylon Products Group 101 Prospect Avenue NW Cleveland, OH 44115	
Emergency telephone number of the company	: US/Canada: (800) 424-9300 Mexico: CHEMTREC Mexico 01-800-681-9531. Available 24 hours and 365 days per year	
Product Information Telephone Number	: US/Canada: (800) 247-3266 Mexico: Not Available	
Regulatory Information Telephone Number	: US/Canada: (216) 566-2902 Mexico: Not Available	
Transportation Emergency Telephone Number	: US/Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 18.7%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 28.5%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 18.7%
GHS label elements	
Hazard pictograms	



Date of issue/Date	of revision	: 11/27/2019	Date of previous issue
A03408004	KRYLON® QUIK-MARK™ Fluorescent Orange	Water-Based Inverted	Marking Paint (Fluorescent)

: 11/5/2019

Section 2. Hazards identification

Signal word	: Danger			
Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Suspected of damaging the unborn child. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. 			
Precautionary statements				
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Pressurized container: Do not pierce or burn, even after use.			
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.			
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.			
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.			
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.			
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.			
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.			

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Toluene	<10	108-88-3
Propane	≤10	74-98-6
Light Aliphatic Hydrocarbon	≤10	64742-47-8
Butane	≤5	106-97-8
Lt. Aliphatic Hydrocarbon Solvent	≤3	64742-89-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Date of issue/Dat	e of revision	: 11/27/2019	Date of previous issue	: 11/5/2019	Version : 13	2/16	307
A03408004	KRYLON® QUIK-MARK™ Fluorescent Orange	Water-Based Inverte	d Marking Paint (Fluorescent)		SHW-85-NA-GHS-US		

Section 4. First aid measures

Description of necessary first aid measures				
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. 			
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.			
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.			
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.			

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	No known significant effects or critical hazards.
Ingestion	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/sympto	<u>ns</u>
Eye contact	Adverse symptoms may include the following: irritation redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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Section 4. First aid measures

Adverse symptoms may include the following:
: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
lical attention and special treatment needed, if necessary
: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
: No specific treatment.
: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

-	-
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: 11/5/2019

Section 6. Accidental release measures

Personal precautions, protec	<u>tiv</u>	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

: 11/5/2019

Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Toluene	108-88-3	OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 375 mg/m ³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m ³ 15 minutes. ACGIH TLV (United States, 3/2019). TWA: 20 ppm 8 hours.
Propane	74-98-6	NIOSH REL (United States, 10/2016). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant]. Explosive potential
Light Aliphatic Hydrocarbon	64742-47-8	ACGIH TLV (United States, 3/2019). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Butane	106-97-8	NIOSH REL (United States, 10/2016). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. ACGIH TLV (United States, 3/2019). Explosive potential. STEL: 1000 ppm 15 minutes.
Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	None.

Occupational exposure limits (Canada)

Ingredient name		CAS #		Exposure limits			
Toluene			108-88-3	Absorbed thro 8 hrs OEL: 50 8 hrs OEL: 18 CA British Col 5/2019). TWA: 20 ppm CA Ontario Pro TWA: 20 ppm	ppm 8 hours. 8 mg/m ³ 8 hours. umbia Provincial (Canad 8 hours. ovincial (Canada, 1/2018) 8 hours. ovincial (Canada, 1/2014)	a,	
ate of issue/D	ate of revision	: 11/27/2019	Date of previous issue	: 11/5/2019	Version : 13	6/16	
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Section 8. Exposure controls/personal protection

		TWAEV: 50 ppm 8 hours. TWAEV: 188 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Normal propane	74-98-6	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 1000 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 5/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
Petroleum refining, hydrotreated light distillate	64742-47-8	 CA British Columbia Provincial (Canada, 5/2019). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. 8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Ontario Provincial (Canada, 1/2018). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.
Butane	106-97-8	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m³ 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 800 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 5/2019). Explosive potential. STEL: 1000 ppm 15 minutes.

Occupational exposure limits (Mexico)

			CAS #	Exposure limi	its	
Toluene		108-88-3	NOM-010-STPS-2014 (Mexico, 4/2016) TWA: 20 ppm 8 hours.			
Propane			74-98-6		S-2014 (Mexico, 4/2016).	
				TWA: 1000 p		
Light Aliphatic Hydrocarbon		64742-47-8	Absorbed thro	ACGIH TLV (United States, 3/2019). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon		
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Section 8. Exposure controls/personal protection

Butane	106-97-8	vapor) 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.
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Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

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Melting point/freezing point	: Not available.			
рН	: 7			
Odor threshold	: Not available.			
Odor	: Not available.			
Color	: Not available.			
Physical state	: Liquid.			
<u>Appearance</u>				

Section 9. Physical and chemical properties

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity **Product/ingredient name** Result **Species** Dose Exposure Toluene LC50 Inhalation Vapor Rat 49 g/m³ 4 hours 636 mg/kg LD50 Oral Rat Butane LC50 Inhalation Vapor Rat 658000 mg/m³ 4 hours

Irritation/Corrosion

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	.							
Product/ingredient name	Result	Species	Score	Exposure	Observation			
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-			
				100 mg				
	Eyes - Mild irritant	Rabbit	-	870 ug	-			
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-			
				mg				
	Skin - Mild irritant	Pig	-	24 hours 250	-			
		-		UI				
	Skin - Mild irritant	Rabbit	-	435 mg	-			
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-			
				mg				
	Skin - Moderate irritant	Rabbit	-	500 mg	-			

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Propane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Light Aliphatic Hydrocarbon	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Butane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Lt. Aliphatic Hydrocarbon Solvent	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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Name	Category	Route of exposure	Target organs
Toluene	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
Light Aliphatic Hydrocarbon	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined

Aspiration hazard

Name	Result
Toluene	ASPIRATION HAZARD - Category 1
Propane	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effect	<u>ts</u>		
Eye contact	: N	No known significant effects or critical hazards.	
Inhalation		Can cause central nervous system (CNS) depression. dizziness. May cause respiratory irritation.	May cause drowsiness or
Skin contact	: N	No known significant effects or critical hazards.	
Ingestion		Can cause central nervous system (CNS) depression. enters airways.	May be fatal if swallowed and

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: irritation redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations	

<u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

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Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	<u>Ifects</u>
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates		
Route	ATE value	
Oral	5286.78 mg/kg	

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours 🥄
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Light Aliphatic Hydrocarbon	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily

Bioaccumulative potential

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Section 12. Ecological information			
Product/ingredient name	LogPow	BCF	Potential
Toluene Lt. Aliphatic Hydrocarbon Solvent	-	90 10 to 2500	low high

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-	-	<u>Emergency</u> <u>schedules</u> F-D, S- U
	ERG No.	ERG No.	ERG No.		
	126	126	126		

Section 14. Transport information

Special precautions for user	consider container sizes. mode of transport (sea, ai suitably for that mode of tr to shipment, and compliar of the person offering the	riptions are provided for informational purposes and do not The presence of a shipping description for a particular r, etc.), does not indicate that the product is packaged ransport. All packaging must be reviewed for suitability prior nee with the applicable regulations is the sole responsibility product for transport. People loading and unloading trained on all of the risks deriving from the substances of emergency situations.
Transport in bulk according to Annex II of MARPOL and the IBC Code	: Not available.	
	Proper shipping name	: Not available.
	Ship type	: Not available.
	Pollution category	: Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists	: Australia inventory (AICS): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (ENCS): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan Chemical Substances Inventory (TCSI): Not determined.
	Thailand inventory: Not determined.
	Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

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Section 16. Other information

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

- Hotory	
Date of printing	: 11/27/2019
Date of issue/Date of revision	: 11/27/2019
Date of previous issue	: 11/5/2019
Version	: 13
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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1. IDENTIFICATION

Product name: LA'S TOTALLY AWESOME OXYGEN ORANGE ALL PURPOSE DEGREASER AND SPOT REMOVER

Additional identification	
Chemical name:	Water based Mixture
	led for consumer use per USCPSC guideli es.
Consumer container size: 32 Fl Oz	
Recommended use and restriction on use	
Recommended use:	All Purpose stain remover
Restrictions on use:	Follow Label Directions.
Responsible Party	
Company Name:	AWESOME PRODUCTS, INC.
Address:	6370 Altura Blvd
	Buena Park, CA 90620 USA
Telephone:	1-800-482-2875
Emergency telephone number:	1-714-562-8873

2. HAZARD(S) IDENTIFICATION

Hazard Classification

Health Hazards Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation May be harmful if inhaled (aspirated)

Category 1B Category 1 Category 3 (Respiratory System)

Toxicity

Acute toxicity values for, oral dermal or inhalation are not known however this product in thought to be relatively non-toxic when used in accordance with label instructions. It does not contain any chemicals subject to the reporting requirements of SARA Section 313 (40 CFR 372).

Label Elements



Signal Word

Hazard Statements: Causes serious eye damage Harmful if swallowed Causes skin irritation

Controlled Document – Version 1.0 SDS Revision Date: 16 January 2018 Date MSDS Issued: Legacy Danger

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

Precautionary Statement:

Prevention:	Wash thoroughly after handling. Wear protective eyewear Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use additional personal protective equipment as required.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OCCURS: Get medical advice/attention immediately. IF INGESTED OR ASPIRATED; call a POISON CENTER (1-800-222-1222) or consult a doctor. See product label for specific treatment. Remove contaminated clothing and launder before reuse.
Storage:	Store in closed containers in restricted location
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws, regulations, and product characteristics at time of disposal.

Other hazards not resulting in GHS classification: None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	Percent by Weight
Water	7732-18-5	93.28%
Diethylene Glycol Monoethyl Ether	7884-38-2	1.71%
2-Ethyl hexanol EO-PO nonionic surfactant	111-90-0	1.71%
Trisodium Phosphate	7601-54-9	1.19%
Sodium Metasilicate	10213-79-3	1.19%
Sodium Hydroxide	1310-73-2	0.60%
Tetrasodium EDTA	64-02-8	0.22%
Fragrance	Mixture	0.10%

Trade secret information: We reserve the right to withhold specific chemical identities and/or percentages of composition as trade secrets.

4. FIRST-AID MEASURES	
General information:	If exposed or concerned get medical advice/attention.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.
Skin Contact:	Take off contaminated clothing and launder before re-use. Wash skin thoroughly with soap and water. If skin irritation occurs, get medical attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER (1-800- 222-1222 in USA) or doctor/physician.

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

Most important symptoms/effects, acute and delayed:

Symptoms: Symptoms may be delayed.

Immediate Medical Attention and Special Treatment Requirements:

Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General Fire Hazards:	Product is water based, No unusual fire or explosion hazards noted.
Extinguishing Media:	
Suitable	Appropriate to primary fire source. Product will tolerate CO ₂ , dry chemical, foam, water spray, water fog.
Unsuitable:	Avoid water reactive media.
Specific hazards:	Material will not burn until water has boiled off or evaporated. When heated hazardous gases may be released including carbon monoxide. Closed containers may rupture on heating.
Special Protective Equipment and	d Precautions for Firefighters
Special procedures:	Dike runoff areas to avoid release to storm sewers or navigable waterways.
Special protective equipment:	Wear full protective fire gear including self-containing breathing apparatus operated in the positive pressure mode with full face piece, coat, pants, gloves and boots for all fires involving chemicals.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Do not handle damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ventilate area if spilled in confined space or other poorly ventilated areas. Personal Protective Equipment must be worn,
Methods and material for containment and cleaning up:	Dike spillage area for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Wash area with soap and water. Spilled liquid and dried film are slippery. Use care to avoid falls. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.
Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or allow to enter storm sewer. Safely prevent further spillage.

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

7. HANDLING AND STORAGE

Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not get in eyes. Avoid contact with skin. Observe good industrial hygiene practices. Provide adequate ventilation. Use personal protective equipment as required. Wash hands thoroughly after handling. Launder contaminated clothing before reuse. Avoid environmental contamination. Avoid breathing mists or vapors. When using do not eat, drink or smoke. Keep containers closed when not in use.
Handling Temperature:	Ambient indoor storage. Do not allow to freeze.
Conditions for safe storage, including any incompatibilities:	Store away from water reactive, acidic and other incompatible materials. Do not store in open, unlabeled or mislabeled containers. Keep away from children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Occupational Exposure Limits

	Chemical name	Туре	Exposure Limits	Source of Information
	Contains no substances with occupational exposure values			NIOSH
Engi	neering Controls:	provide		ed area only. Adequate ventilation should be hits are not exceeded. Mechanical ventilation or be required.
Indi	vidual Protection Measu	res:		
	General information:	ventila should exhaus	tion (typically 10 air cl be matched to condition	supply and eye wash facilities. Good general hanges per hour) should be used. Ventilation rates ons. If applicable, use process enclosures, local engineering controls to maintain airborne levels to
	Eye/face protection:	Wear t	ight-fitting goggles or	face shield.
	Skin Protection:			
	Hand Protection:	-	od industrial hygiene pr wear chemically protect	actices to limit or avoid skin contact. If contact may ive gloves
	Other skin protection		pron or protective clot lar apparel that could	hing in case of contact. Do not wear rings, watches entrap the material.
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LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

Respiratory Protection:	Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Hygiene measures:	Observe good industrial hygiene practices. Do not get in eyes. Avoid contact with skin. Wash contaminated clothing before reuse. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Transparent Liquid
Color:	Colorless
Odor:	Determined by added fragrance
Odor threshold:	No data available.

Chemical Properties

pH R	ange:	11-12.5
Freez	ing point:	Approximately that of water
Boili	ng Point:	Approximately that of water
Flash	Point:	Boils without Flashing
Evap	oration rate:	Approximately that of water
Flam	mability (solid, gas):	
	Upper limit - upper (%):	Not Flammable.
	Lower limit - lower (%):	Not Flammable.
	Explosive limit - upper (%):	Not Explosive
	Explosive limit - lower (%):	Not Explosive.
Vapo	r pressure:	Approximately that of water
Vapo	r density:	Approximately that of water vapor
	ive density:	
Solut	•	N.C. 111
	In water:	Miscible
	Other:	Not determined
Auto	-ignition temperature:	Not Flammable
Deco	mposition temperature:	Boils without decomposing.
Visco	osity:	Similar to that of water.
Other	r information	
Bu	lk density:	Approximately 8.4 lb/gal
Perc	ent Non-Volatile Solids:	Approximately 5 %
Vola	atile Organic Compounds (VOC):	Less than 2%

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

10. STABILITY AND REACTIVITY

Reactivity:	Stable under ambient conditions
Chemical Reactivity:	Performance deteriorates in the presence of acidic material
Hazardous Polymerization or Other Reactions:	Not expected to occur.
Conditions to Avoid:	Do not freeze or blend with acids.
Incompatible Materials:	Strong acids and water reactive chemicals or metals.
Hazardous Decomposition Products:	Thermal decomposition or combustion following loss of water content may liberate carbon oxides and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

	Inhalation:	Avoid inhaling mist.
	Ingestion:	Do not swallow.
	Skin Contact:	Causes skin irritation. Wash off with water if exposed.
	Eye contact:	Causes serious eye damage.
Info	ormation on toxicological effe	ects
	Acute Toxicity	
	Oral:	Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Swallowing this material causes irritation of mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain. Seek immediate medical attention.
	Dermal:	Not classified for acute toxicity based on available data.
	Inhalation:	Avoid inhalation of mists or vapors. Not classified for acute toxicity based on available data.
	Skin Corrosion/Irritation:	Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
	Serious Eye Damage/Eye In	
		Mist may cause irritation. Causes serious eye damage.
	Respiratory sensitization:	No data available
	Skin sensitization:	Not a skin sensitizer.

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

Specific Target Organ Tox	icity - Single Exposure:
	Mist or vapors from heating may cause irritation of upper respiratory tract.
Aspiration Hazard:	No data available but expected to be harmful.
Chronic Effects	
Carcinogenicity:	It is not anticipated that the hazard of carcinogenicity will result from workplace exposure to this product or it's solutions.
IARC Monographs on th	e Evaluation of Carcinogenic Risks to Humans:
	Components not classifiable as to carcinogenicity to humans.
U.S. National Toxicology	Program (NTP) Report on Carcinogens: See section 8 of this SDS
U.S. OSHA Specifically	Regulated Substances (29 CFR 1910.1001-1050): See section 8 of this SDS
Germ Cell Mutagenicity:	There is limited evidence that this material may damage the developing fetus.
Reproductive Toxicity:	There is limited evidence that the components of this material may affect the reproductive system in humans or in animals.
.Specific Target Organ Tox	kicity - Repeated Exposure: Prolonged or repeated skin contact product mixture may cause dermatitis

with redness, edema, drying, and cracking of the skin.

12. ECOLOGICAL INFORMATION

EcotoxicityProduct considered toxic to aquatic life. Waste from normal product use may be
disposed of in an EPA Permitted Publicly Owned Treatment Works (POTW) in
compliance with applicable Federal / Provincial / State / Local / Municipal
pretreatment requirements or a qualified Septic system.

13. DISPOSAL CONSIDERATIONS

Disposal instructions:	Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.
Used Packaging:	Container packaging may exhibit residual hazards.
California Waste Code:	561 (Detergent and Soap)

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

14. TRANSPORT INFORMATION

DOT

Not regulated (pH Not More Than (NMT) 12.5 Consumer Commodity UN8000 ERG171

IMDG

Not regulated.

IATA

Not regulated.

Shipping descriptions may vary based on mode of transport, quantities ,temperature of the material, package size, and/or origin and destination It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

15. REGULATORY INFORMATION

U.S. Federal Regulations

Toxic Substances Control Act (TSCA)

The ingredients in this product are listed or are exempt from listing on the U.S. Toxic Substances control Act (TSCA) Chemical Substance Inventory

Superfund Amendments and Reauthorization Act of 1986 (SARA)

This product does not contain any SARA 302 Extremely Hazardous Substances in regulated quantities.

US State Regulations

California Proposition 65

This product does not contain chemical(s) known to the state of California to cause cancer, reproductive harm or birth defects.

New Jersey and Pennsylvania Right to Know

One or more components are listed on the Pennsylvania and New Jersey Hazardous Substance and Special Health Hazard Substance lists.

Canadian Regulations

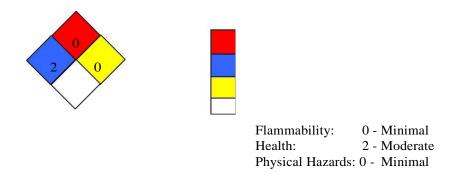
The components of this material do not appear on Canada's CEPA Environmental Toxic Substances List

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

16. OTHER INFORMATION

HMIS Hazard ID

Hazard rating scale: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect"



This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.



1. IDENTIFICATION

Product name: LA'S TOTALLY AWESOME OXYGEN ORANGE ALL PURPOSE DEGREASER AND SPOT REMOVER

Additional identification	
Chemical name:	Water based Mixture
Product is designed, packaged and labe	led for consumer use per USCPSC guideli es.
Consumer container size: 32 Fl Oz	
Recommended use and restriction on use	
Recommended use:	All Purpose stain remover
Restrictions on use:	Follow Label Directions.
Responsible Party	
Company Name:	AWESOME PRODUCTS, INC.
Address:	6370 Altura Blvd
	Buena Park, CA 90620 USA
Telephone:	1-800-482-2875
Emergency telephone number:	1-714-562-8873

2. HAZARD(S) IDENTIFICATION

Hazard Classification

Health Hazards Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation May be harmful if inhaled (aspirated)

Category 1B Category 1 Category 3 (Respiratory System)

Toxicity

Acute toxicity values for, oral dermal or inhalation are not known however this product in thought to be relatively non-toxic when used in accordance with label instructions. It does not contain any chemicals subject to the reporting requirements of SARA Section 313 (40 CFR 372).

Label Elements



Signal Word

Hazard Statements: Causes serious eye damage Harmful if swallowed Causes skin irritation

Controlled Document – Version 1.0 SDS Revision Date: 16 January 2018 Date MSDS Issued: Legacy Danger

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

Precautionary Statement:

Prevention:	Wash thoroughly after handling. Wear protective eyewear Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use additional personal protective equipment as required.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OCCURS: Get medical advice/attention immediately. IF INGESTED OR ASPIRATED; call a POISON CENTER (1-800-222-1222) or consult a doctor. See product label for specific treatment. Remove contaminated clothing and launder before reuse.
Storage:	Store in closed containers in restricted location
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws, regulations, and product characteristics at time of disposal.

Other hazards not resulting in GHS classification: None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	Percent by Weight
Water	7732-18-5	93.28%
Diethylene Glycol Monoethyl Ether	7884-38-2	1.71%
2-Ethyl hexanol EO-PO nonionic surfactant	111-90-0	1.71%
Trisodium Phosphate	7601-54-9	1.19%
Sodium Metasilicate	10213-79-3	1.19%
Sodium Hydroxide	1310-73-2	0.60%
Tetrasodium EDTA	64-02-8	0.22%
Fragrance	Mixture	0.10%

Trade secret information: We reserve the right to withhold specific chemical identities and/or percentages of composition as trade secrets.

4. FIRST-AID MEASURES		
General information:	If exposed or concerned get medical advice/attention.	
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.	
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.	
Skin Contact:	Take off contaminated clothing and launder before re-use. Wash skin thoroughly with soap and water. If skin irritation occurs, get medical attention.	
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER (1-800- 222-1222 in USA) or doctor/physician.	

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

Most important symptoms/effects, acute and delayed:

Symptoms: Symptoms may be delayed.

Immediate Medical Attention and Special Treatment Requirements:

Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General Fire Hazards: Extinguishing Media:	Product is water based, No unusual fire or explosion hazards noted.	
Extinguishing Wedia.		
Suitable	Appropriate to primary fire source. Product will tolerate CO ₂ , dry chemical, foam, water spray, water fog.	
Unsuitable:	Avoid water reactive media.	
Specific hazards:	Material will not burn until water has boiled off or evaporated. When heated hazardous gases may be released including carbon monoxide. Closed containers may rupture on heating.	
Special Protective Equipment and Precautions for Firefighters		
Special procedures:	Dike runoff areas to avoid release to storm sewers or navigable waterways.	
Special protective equipment:	Wear full protective fire gear including self-containing breathing apparatus operated in the positive pressure mode with full face piece, coat, pants, gloves and boots for all fires involving chemicals.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Do not handle damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ventilate area if spilled in confined space or other poorly ventilated areas. Personal Protective Equipment must be worn,
Methods and material for containment and cleaning up:	Dike spillage area for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Wash area with soap and water. Spilled liquid and dried film are slippery. Use care to avoid falls. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.
Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or allow to enter storm sewer. Safely prevent further spillage.

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

7. HANDLING AND STORAGE

Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not get in eyes. Avoid contact with skin. Observe good industrial hygiene practices. Provide adequate ventilation. Use personal protective equipment as required. Wash hands thoroughly after handling. Launder contaminated clothing before reuse. Avoid environmental contamination. Avoid breathing mists or vapors. When using do not eat, drink or smoke. Keep containers closed when not in use.
Handling Temperature:	Ambient indoor storage. Do not allow to freeze.
Conditions for safe storage, including any incompatibilities:	Store away from water reactive, acidic and other incompatible materials. Do not store in open, unlabeled or mislabeled containers. Keep away from children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Occupational Exposure Limits

	Chemical name	Туре	Exposure Limits	Source of Information
	Contains no substances with occupational exposure values			NIOSH
Engi	neering Controls:	provid		ed area only. Adequate ventilation should be nits are not exceeded. Mechanical ventilation or be required.
Indi	vidual Protection Measu	res:		
	General information:	ventila should exhaus	tion (typically 10 air cl be matched to conditi	supply and eye wash facilities. Good general hanges per hour) should be used. Ventilation rates ons. If applicable, use process enclosures, local engineering controls to maintain airborne levels to
	Eye/face protection:	Wear t	ight-fitting goggles or	face shield.
	Skin Protection:			
	Hand Protection:		od industrial hygiene pr wear chemically protect	ractices to limit or avoid skin contact. If contact may ive gloves
	Other skin protection		pron or protective clot lar apparel that could	hing in case of contact. Do not wear rings, watches entrap the material.
	olled Document – Version			Page 4 of

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

Respiratory Protection:	Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Hygiene measures:	Observe good industrial hygiene practices. Do not get in eyes. Avoid contact with skin. Wash contaminated clothing before reuse. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Transparent Liquid
Color:	Colorless
Odor:	Determined by added fragrance
Odor threshold:	No data available.

Chemical Properties

pH Range:	11-12.5
Freezing point:	Approximately that of water
Boiling Point:	Approximately that of water
Flash Point:	Boils without Flashing
Evaporation rate:	Approximately that of water
Flammability (solid, gas):	
Upper limit - upper (%):	Not Flammable.
Lower limit - lower (%):	Not Flammable.
Explosive limit - upper (%):	Not Explosive
Explosive limit - lower (%):	Not Explosive.
Vapor pressure:	Approximately that of water
Vapor density:	Approximately that of water vapor
Relative density: Solubility	
In water:	Miscible
Other:	Not determined
Auto-ignition temperature:	Not Flammable
Decomposition temperature:	Boils without decomposing.
Viscosity:	Similar to that of water.
Other information	
Bulk density:	Approximately 8.4 lb/gal
Percent Non-Volatile Solids:	Approximately 5 %
Volatile Organic Compounds (VOC):	Less than 2%

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

10. STABILITY AND REACTIVITY

Reactivity:	Stable under ambient conditions
Chemical Reactivity:	Performance deteriorates in the presence of acidic material
Hazardous Polymerization or Other Reactions:	Not expected to occur.
Conditions to Avoid:	Do not freeze or blend with acids.
Incompatible Materials:	Strong acids and water reactive chemicals or metals.
Hazardous Decomposition Products:	Thermal decomposition or combustion following loss of water content may liberate carbon oxides and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

	Inhalation:	Avoid inhaling mist.
	Ingestion:	Do not swallow.
	Skin Contact:	Causes skin irritation. Wash off with water if exposed.
	Eye contact:	Causes serious eye damage.
Info	ormation on toxicological effe	ects
	Acute Toxicity	
	Oral:	Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Swallowing this material causes irritation of mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain. Seek immediate medical attention.
	Dermal:	Not classified for acute toxicity based on available data.
	Inhalation:	Avoid inhalation of mists or vapors. Not classified for acute toxicity based on available data.
	Skin Corrosion/Irritation:	Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
	Serious Eye Damage/Eye Irritation:	
		Mist may cause irritation. Causes serious eye damage.
	Respiratory sensitization:	No data available
	Skin sensitization:	Not a skin sensitizer.

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

Specific Target Organ Toxicity - Single Exposure:		
	Mist or vapors from heating may cause irritation of upper respiratory tract.	
Aspiration Hazard:	No data available but expected to be harmful.	
Chronic Effects		
Carcinogenicity:	It is not anticipated that the hazard of carcinogenicity will result from workplace exposure to this product or it's solutions.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:		
	Components not classifiable as to carcinogenicity to humans.	
U.S. National Toxicology	Program (NTP) Report on Carcinogens: See section 8 of this SDS	
U.S. OSHA Specifically	Regulated Substances (29 CFR 1910.1001-1050): See section 8 of this SDS	
Germ Cell Mutagenicity:	There is limited evidence that this material may damage the developing fetus.	
Reproductive Toxicity:	There is limited evidence that the components of this material may affect the reproductive system in humans or in animals.	
.Specific Target Organ Tox	kicity - Repeated Exposure: Prolonged or repeated skin contact product mixture may cause dermatitis	

with redness, edema, drying, and cracking of the skin.

12. ECOLOGICAL INFORMATION

EcotoxicityProduct considered toxic to aquatic life. Waste from normal product use may be
disposed of in an EPA Permitted Publicly Owned Treatment Works (POTW) in
compliance with applicable Federal / Provincial / State / Local / Municipal
pretreatment requirements or a qualified Septic system.

13. DISPOSAL CONSIDERATIONS

Disposal instructions:	Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.
Used Packaging:	Container packaging may exhibit residual hazards.
California Waste Code:	561 (Detergent and Soap)

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

14. TRANSPORT INFORMATION

DOT

Not regulated (pH Not More Than (NMT) 12.5 Consumer Commodity UN8000 ERG171

IMDG

Not regulated.

IATA

Not regulated.

Shipping descriptions may vary based on mode of transport, quantities ,temperature of the material, package size, and/or origin and destination It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

15. REGULATORY INFORMATION

U.S. Federal Regulations

Toxic Substances Control Act (TSCA)

The ingredients in this product are listed or are exempt from listing on the U.S. Toxic Substances control Act (TSCA) Chemical Substance Inventory

Superfund Amendments and Reauthorization Act of 1986 (SARA)

This product does not contain any SARA 302 Extremely Hazardous Substances in regulated quantities.

US State Regulations

California Proposition 65

This product does not contain chemical(s) known to the state of California to cause cancer, reproductive harm or birth defects.

New Jersey and Pennsylvania Right to Know

One or more components are listed on the Pennsylvania and New Jersey Hazardous Substance and Special Health Hazard Substance lists.

Canadian Regulations

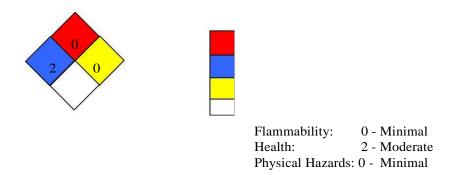
The components of this material do not appear on Canada's CEPA Environmental Toxic Substances List

LA'S TOTALLY AWESOME LAUNDRY PRE-WASH

16. OTHER INFORMATION

HMIS Hazard ID

Hazard rating scale: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect"



This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.



Safety Data Sheet

1. IDENTIFICATION

Product Identifier Product Name	Lens Cleaning Liquid	
Other means of identification SDS #	PYR-005	
Product Numbers	GALSOL, LCB16, LCS10, LCS20, CRA001	
<u>Recommended use of the chemical</u> Recommended Use	<u>and restrictions on use</u> Eyeglass lens cleaner.	
Details of the supplier of the safety of Supplier Address Pyramex Safety Products LLC 281A Moore Lane Collierville, TN 38017	data sheet	
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	1-901-861-6100 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)	
	2. HAZARDS IDENTIFICATION	
Appearance Clear or pale pink liquid	Physical State Liquid	Odor Mild citrus

Classification

The information below is for the liquid in industrial quantities when used in an industrial setting. The solution as packed in a consumer quantity is considered a consumer good and when used as intended is unlikely to present a hazard

Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethylene Glycol Monobutyl Ether	111-76-2	5-15

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact	Wash with soap and water.

5. FIRE-FIGHTING MEASURES		
Notes to Physician	Treat symptomatically.	
Indication of any immediate	medical attention and special treatment needed	
Symptoms	Causes mild skin irritation.	
<u>Most important symptoms a</u>	nd effects	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Inhalation	Remove to fresh air.	

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions. protective equipment and emergency procedures

Personal Precautions	Avoid contact with skin, eyes or clothing.	
Environmental Precautions	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.	
Methods for Clean-Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.	

7. HANDLING AND STORAGE

Precautions for safe handling	
Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Keep out of the reach of children.
Conditions for safe storage. includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible Materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures. such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes.
Skin and Body Protection	Wear suitable protective clothing.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Clear or pale pink l Clear or pale pink
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature	Values 7 Not determined 100 °C / 210 °F Not determined Not determined Not determined Not determined Not determined 1.3 1.010 Soluble in water Not determined Not determined Not determined Not determined Not determined

le pink liquid le pink

Odor Odor Threshold Mild citrus Not determined

Remarks • Method

Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined
VOC Content	5.09

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Avoid contact with eyes.
Causes mild skin irritation.
Do not inhale.
Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl Ether 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat)= 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat)4 h = 450 ppm (Rat)4 h
Sodium Bicarbonate 144-55-8	= 4220 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl	A3	Group 3		
Ether				
111-76-2				
Legend				

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol Monobutyl		1490: 96 h Lepomis		1698 - 1940: 24 h Daphnia
Ether		macrochirus mg/L LC50		magna mg/L EC50 1000: 48
111-76-2		static 2950: 96 h Lepomis		h Daphnia magna mg/L
		macrochirus mg/L LC50		EC50
Sodium Bicarbonate	650: 120 h Nitzschia linearis	8250 - 9000: 96 h Lepomis		2350: 48 h Daphnia magna
144-55-8	mg/L EC50	macrochirus mg/L LC50		mg/L EC50
	-	static		_

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethylene Glycol Monobutyl Ether	0.81
111-76-2	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
	14. TRANSPORT INFORMATION
Note	Please see current shipping paper for most up to date shipping information, including

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies	
DSL	Does not comply	
NDSL	Does not comply	
EINECS	Does not comply	
ELINCS	Does not comply	
ENCS	Does not comply	
IECSC	Does not comply	
KECL	Does not comply	
PICCS	Does not comply	
AICS	Does not comply	

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol Monobutyl Ether - 111-76-2	111-76-2	5-15	1.0

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol Monobutyl Ether	Х	Х	Х
111-76-2			

16. OTHER INFORMATION				
NFPA	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	Not determined
Issue Date:	12/6/200	07		
Revision Date:	02/20/20	015		
Revision Note:	New for	mat		

<u>Disclaimer</u>

The information provided in this Safety Data Sheet was obtained from sources which we believe are reliable. However, the information is provided without warranty, expressed or implied, regarding the accuracy or correctness.

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End of Safety Data Sheet

Safety Data Sheet



Revision Number: 006.0

Issue date: 03/30/2020

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

Product type: Restriction of Use: Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

LOCTITE LB 771 NICKEL GRADE ANTI-SEIZE known as Nickel Grade Anti-Seize Lubricant None identified

Item number: 77124 Region: **United States** Contact information: Telephone: +1 (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

235028

2. HAZARDS IDENTIFICATION

	EMERGENCY OVERVIEW
DANGER:	MAY CAUSE AN ALLERGIC SKIN REACTION.
	SUSPECTED OF CAUSING CANCER.
	CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED
	EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN SENSITIZATION	1
CARCINOGENICITY	2
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

PICTOGRAM(S)

Precautionary Statements

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fumes. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.
Response:	FON SKIN: Wash with plenty of water. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

IDH number: 235028

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	50 - 60	
Nickel	7440-02-0	10 - 20	
Graphite	7782-42-5	5 - 10	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	1 - 5	
Aluminum not powder, dust or fume	7429-90-5	1 - 5	

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES		
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.	
Skin contact:	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Wash clothing before reuse.	
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop and persist, get medical attention.	
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.	
Symptoms:	See Section 11.	
5. FI	RE FIGHTING MEASURES	
Extinguishing media:	Foam, dry chemical or carbon dioxide.	
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.	
Unusual fire or explosion hazards:	None	
Hazardous combustion products:	Oxides of carbon. Oxides of Metals in Section 3. Toxic and irritating vapors.	

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Scrape up as much material as possible. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling:	Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
	Broduct names I OCTITE I B 771 NICKEL ODADE ANTI SEIZE kanun on Nickel Orado Anti Saiza

IDH number: 235028

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA Inhalable fraction.	500 ppm (2,000 mg/m3) PEL 5 mg/m3 PEL Mist.	None	None
Nickel	1.5 mg/m3 TWA Inhalable fraction.	1 mg/m3 PEL (as Ni)	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 15 MPPCF TWA	None	None
Distillates (petroleum), hydrotreated heavy paraffinic	5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist 5 mg/m3 PEL Mist.	None	None
Aluminum not powder, dust or fume	1 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL (as Al) Respirable fraction. 15 MPPCF TWA Respirable fraction. 5 mg/m3 TWA Respirable fraction.	None	None

Engineering controls:

Respiratory protection:

Eye/face protection:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Safety goggles or safety glasses with side shields. Safety showers and eye wash stations should be available.

Skin protection:

Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: . Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Flammability Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature:

Paste Gray Petroleum Not available. Not available. < 5 mm hg (80 °F (26.7 °C)) Not available. Not available. 1.1 Not available. > 93 °C (> 199.4 °F) Not available. Not available. Not available. Not applicable Not available. Negligible Not available. 2.47 %; 27 g/l Not available. Not available.

10. STABILITY AND REACTIVITY

 11	
Conditions to avoid:	Keep away from heat, spark and flame. Store away from incompatible materials.
Reactivity:	Not available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Oxides of carbon. Oxides of Metals in Section 3. Irritating organic vapours.
Hazardous reactions:	None under normal processing.
Stability:	Stable under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalati

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation.
Skin contact:	May cause skin irritation. May cause allergic skin reaction.
Eye contact:	May cause eye irritation.
Ingestion:	Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Distillates (petroleum), hydrotreated heavy naphthenic	None	Irritant
Nickel	None	No Data
Graphite	None	Lung
Distillates (petroleum), hydrotreated heavy paraffinic	None	Irritant
Aluminum not powder, dust or fume	None	Central nervous system, Irritant, Lung

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No
Nickel	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Graphite	No	No	No
Distillates (petroleum), hydrotreated heavy paraffinic	No	No	No
Aluminum not powder, dust or fume	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Hazardous waste number:

Follow all local, state, federal and provincial regulations for disposal.

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	One or more components of this product are not listed on the U.S. Toxic Substances Control Act (TSCA) inventory. As such, this product may only be used for research and development purposes as described in 40 CFR 720.36. All other components of this product are listed or are exempt from listing.
TSCA 12 (b) Export Notification:	None above reporting de minimis
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Delayed Health, Immediate Health This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Nickel (CAS# 7440-02-0).
CERCLA Reportable quantity:	Nickel (CAS# 7440-02-0) 100 lbs. (45.4 kg)
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer.
Canada Regulatory Information	
CEPA DSL/NDSL Status:	One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 8

Prepared by: Product Safety and Regulatory Affairs

Issue date: 03/30/2020

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S00701000

Section 1. Identification

Product name	: LU™701 Food Grade Machinery Oil Aerosol
Product code	: S00701000
Other means of identification	: Not available.
Product type	: Aerosol.
Relevant identified uses of t	he substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: Sprayon Products Group 101 W. Prospect Avenue, Cleveland, Ohio 44115
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year
Product Information Telephone Number	: US / Canada: (800) 247-3266 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). 	
Classification of the substance or mixture	 FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 	
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 70% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 100% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 100%	
GHS label elements		
Hazard pictograms		



Section 2. Hazards identification

Signal word	: Danger
•	-
Hazard statements	: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways.
	May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
Storage	 Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. FOR INDUSTRIAL USE ONLY.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient name	% by weight	CAS number
	≥50 - ≤75 ≥25 - ≤50 ≤3	64742-47-8 8042-47-5 124-38-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

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Eye contact
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: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

Section 4. First aid measures

Inhalation :	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact :	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion :	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/effe	cts, acute and delayed
Potential acute health effects	
Eve contact :	No known significant effects or critical hazards.

Eye contact	: No known significant effects or critical hazards.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: Adverse symptoms may include the following: nausea or vomiting
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Oection 5. The-fig	
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 5. Fire-fighting measures

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

: 4/16/2018

Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits		
Aliphatic Solvent	64742-47-8	ACGIH TLV (United States, 3/2019). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.		
Paraffinic Mineral Oil	8042-47-5	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2019). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist		
Carbon Dioxide	124-38-9	ACGIH TLV (United States, 3/2019). Oxyger Depletion [Asphyxiant].		
Date of issue/Date of revision : 11/29/2	2019 Date of previous issue	: 4/16/2018 Version : 7 5/1:		
LU™701 Food Grade Machinery	/ Oil Aerosol	SHW-85-NA-GHS-US		

Section 8. Exposure controls/personal protection

 -
TWA: 5000 ppm 8 hours.
TWA: 9000 mg/m ³ 8 hours.
STEL: 30000 ppm 15 minutes.
STEL: 54000 mg/m ³ 15 minutes.
NIOSH REL (United States, 10/2016).
TWA: 5000 ppm 10 hours.
TWA: 9000 mg/m ³ 10 hours.
STEL: 30000 ppm 15 minutes.
STEL: 54000 mg/m ³ 15 minutes.
OSHA PEL (United States, 5/2018).
TWA: 5000 ppm 8 hours.
TWA: 9000 mg/m ³ 8 hours.
5

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Petroleum refining, hydrotreated light distillate	64742-47-8	 CA British Columbia Provincial (Canada, 5/2019). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. 8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Ontario Provincial (Canada, 1/2018). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.
Paraffinic Mineral Oil	8042-47-5	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 5 mg/m ³ 8 hours. Form: Mist 15 min OEL: 10 mg/m ³ 15 minutes. Form: Mist CA British Columbia Provincial (Canada, 5/2019). TWA: 1 mg/m ³ 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 5 mg/m ³ 8 hours. Form: mist STEV: 10 mg/m ³ 15 minutes. Form: mist

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Aliphatic Solvent	64742-47-8	ACGIH TLV (United States, 3/2019). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Paraffinic Mineral Oil	8042-47-5	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 5 mg/m ³ 8 hours. Form: mist

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

Date of issue/Date	of revision	: 11/29/2019	Date of previous issue	: 4/16/2018	Version	:7	6/13	
S00701000	LU™701 Food Grade N	Machinery Oil A	erosol		SHW-85	NA-GHS-US		

Section 8. Exposure controls/personal protection

•	
	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>s</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Date of issue/Date of revision	• 11/29/2019 Date of previous issue • 4/16/2018	Version : 7	7/13
Vapor density	: Not available.		
Vapor pressure	: 101.3 kPa (760 mm Hg) [at 20°C]		
Lower and upper explosive (flammable) limits	: Lower: 0.7% Upper: 6%		
Flammability (solid, gas)	: Not available.		
Evaporation rate	: 0.192 (butyl acetate = 1)		
Flash point	: Closed cup: 104°C (219.2°F) [Pensky-Martens Closed Cup]		
Boiling point/boiling range	: Not available.		
Melting point/freezing point	: Not available.		
pH	Not available.		
Odor threshold	: Not available.		
Odor	: Not available.		
Color	: Not available.		
Physical state	: Liquid.		
<u>Appearance</u>			

Date of issue/Date of revision : 11/29/2019 Date of previous issue : 4/16/2018 Version : 7 7/13 S00701000 LU™701 Food Grade Machinery Oil Aerosol SHW-85-NA-GHS-US SHW-85-NA-GHS-US SHW-85-NA-GHS-US

Section 9. Physical and chemical properties

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Relative density	: 0.8
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): <0.205 cm ² /s (<20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 27.81 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Paraffinic Mineral Oil	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Aliphatic Solvent	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Specific target organ toxicity (repeate	ed exposure)	·	·
Namo	Category	Route of	Target organs

Name		Route of exposure	Target organs
Aliphatic Solvent	Category 2	Not determined	Not determined

Aspiration hazard

S00701000

LU™701 Food Grade Machinery Oil Aerosol

Name	Result
Aliphatic Solvent	ASPIRATION HAZARD - Category 1
Paraffinic Mineral Oil	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effe	cts	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	:	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Symptoms related to the p	<u>ohy</u>	sical, chemical and toxicological characteristics
Eye contact	-	Adverse symptoms may include the following: irritation redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	1	No specific data.
Ingestion	:	Adverse symptoms may include the following: nausea or vomiting
	<u>fec</u>	ts and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	-	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Date of issue/Date of revision		:11/29/2019 Date of previous issue :4/16/2018 Version :7 9/13

Potential delayed effects	Not available.
Potential chronic health	<u>effects</u>
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates Not available.

Section 12. Ecological information

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Product/ingredient name	Result	Species	Exposure
Aliphatic Solvent	Acute LC50 2200 μg/l Fresh water	Fish - Lepomis macrochirus	4 days 🥄

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

- : Not available.
- Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, non- flammable	AEROSOLS
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	- ERG No.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). ERG No.	- ERG No.		<u>Emergency</u> <u>schedules</u> F-D, S [.] U
	126	126	126		
Special precaution	consid mode suitab to shi of the dange	modal shipping descr der container sizes. T of transport (sea, air ly for that mode of tra oment, and compliand person offering the p erous goods must be n all actions in case of	he presence of a sh , etc.), does not indi ansport. All packagin ce with the applicab product for transport trained on all of the	hipping description cate that the produ- ng must be reviewe le regulations is the . People loading an risks deriving from	for a particular lict is packaged ed for suitability prior e sole responsibility nd unloading
Transport in bulk a to Annex II of MAR the IBC Code	according : Not ava				
		shipping name	: Not available.		
	Ship ty	/pe	: Not available.		
	B - H - H	on category	: Not available.		

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

Not applicable.

International regulations

Section 15. Regulatory information

International lists	: Australia inventory (AICS): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (ENCS): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan Chemical Substances Inventory (TCSI): Not determined.
	Thailand inventory: Not determined.
	Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	On basis of test data Calculation method Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1	Calculation method Calculation method

History Date of printing : 11/29/2019 Date of issue/Date of : 11/29/2019 revision Date of previous issue : 4/16/2018 Version : 7 Key to abbreviations : ATE = Acute Toxicity Estimate **BCF** = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available

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Section 16. Other information

SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

S00701000

Section 1. Identification

Product name	: LU™701 Food Grade Machinery Oil Aerosol
Product code	: S00701000
Other means of identification	: Not available.
Product type	: Aerosol.
Relevant identified uses of t	he substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: Sprayon Products Group 101 W. Prospect Avenue, Cleveland, Ohio 44115
Emergency telephone number of the company	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year
Product Information Telephone Number	: US / Canada: (800) 247-3266 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 70% (oral), 100% (dermal), 100% (inhalation)
: Danger

Section 2. Hazards identification

Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Pressurized container: Do not pierce or burn, even after use.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. FOR INDUSTRIAL USE ONLY.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Other means of	:	Not available.
identification		

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Paraffinic Mineral Oil	≥50 - ≤75 ≥25 - ≤50 ≤3	64742-47-8 8042-47-5 124-38-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

:11/29/2019

Section 4. First aid measures

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/ef	ifects, acute and delayed
Potential acute health effect	t <u>s</u>

Eye contact	: No known significant effects or critical hazards.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/sy	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: Adverse symptoms may include the following: nausea or vomiting
Indication of immediate n	nedical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 5. Fire-fighting measures

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits		
Aliphatic Solvent	64742-47-8	Absorbed throug	ted States, 3/2020) gh skin. ³, (as total hydroca	
Paraffinic Mineral Oil	8042-47-5	OSHA PEL (Unit TWA: 5 mg/m ³ 8 ACGIH TLV (Unit TWA: 5 mg/m ³ 8 fraction NIOSH REL (Unit TWA: 5 mg/m ³ 1	ed States, 5/2018). hours. ted States, 3/2020) hours. Form: Inha ted States, 10/201 0 hours. Form: Mis 15 minutes. Form:). lable 6) .
Carbon Dioxide	124-38-9	•	ted States, 3/2020)	
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 -
TWA: 5000 ppm 8 hours.
TWA: 9000 mg/m ³ 8 hours.
STEL: 30000 ppm 15 minutes.
STEL: 54000 mg/m ³ 15 minutes.
NIOSH REL (United States, 10/2016).
TWA: 5000 ppm 10 hours.
TWA: 9000 mg/m ³ 10 hours.
STEL: 30000 ppm 15 minutes.
STEL: 54000 mg/m ³ 15 minutes.
OSHA PEL (United States, 5/2018).
TWA: 5000 ppm 8 hours.
TWA: 9000 mg/m ³ 8 hours.
5

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Petroleum refining, hydrotreated light distillate	64742-47-8	CA British Columbia Provincial (Canada, 1/2020). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapour) 8 hours. CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. 8 hrs OEL: 200 mg/m ³ , (as total hydrocarbon vapour) 8 hours. CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapour) 8 hours.
Paraffinic Mineral Oil	8042-47-5	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist 15 min OEL: 10 mg/m³ 15 minutes. Form: Mist CA British Columbia Provincial (Canada, 1/2020). TWA: 1 mg/m³ 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 5 mg/m³ 8 hours. Form: mist STEV: 10 mg/m³ 15 minutes. Form: mist

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Aliphatic Solvent	64742-47-8	ACGIH TLV (United States, 3/2020). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Paraffinic Mineral Oil	8042-47-5	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 5 mg/m ³ 8 hours. Form: mist

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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Environmental exposure controls

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•	
	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>s</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Date of issue/Date of revision	: 10/15/2020 Date of previous issue : 11/29/2019	Version	:8	7/13
Vapor density	: Not available.			
Vapor pressure	: 101.3 kPa (760 mm Hg) [at 20°C]			
(flammable) limits	Upper: 6%			
Lower and upper explosive	: Lower: 0.7%			
Flammability (solid, gas)	: Not available.			
Evaporation rate	: 0.192 (butyl acetate = 1)			
Flash point	: Closed cup: 104°C (219.2°F) [Pensky-Martens Closed Cup]			
Boiling point/boiling range	: Not available.			
Melting point/freezing point	: Not available.			
рН	: Not available.			
Odor threshold	: Not available.			
Odor	: Not available.			
Color	: Not available.			
Physical state	: Liquid.			
<u>Appearance</u>				

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Section 9. Physical and chemical properties

-		
Relative density	1	0.8
Solubility	1	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)
Molecular weight	1	Not applicable.
Aerosol product		
Type of aerosol	1	Spray
Heat of combustion	:	27.81 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Paraffinic Mineral Oil	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target of	organ toxicity	(single exposure)

Name	Category	Route of exposure	Target organs
Aliphatic Solvent	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

<u>Specific target organ toxicity (repeated exposure)</u>

Name		Route of exposure	Target organs
Aliphatic Solvent	Category 2	-	-

Aspiration hazard

S00701000

LU™701 Food Grade Machinery Oil Aerosol

Name	Result
	ASPIRATION HAZARD - Category 1
Paraffinic Mineral Oil	ASPIRATION HAZARD - Category 1

Potential acute health effe Eye contact nhalation	cts : No known significant effects or critical hazards.
	: No known significant effects or critical hazards.
nhalation	
	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: No known significant effects or critical hazards.
ngestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: irritation redness
nhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
ngestion	: Adverse symptoms may include the following: nausea or vomiting
	ects and also chronic effects from short and long term exposure
Short term exposure	NI-6
Potential immediate	: Not available.
Potential delayed effects	: Not available.
<u>ong term exposure</u> .	
Potential immediate	: Not available.

Potential delayed effects	Not available.
Potential chronic health	<u>effects</u>
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates Not available.

Section 12. Ecological information

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_	-	_	

Product/ingredient name	Result	Species	Exposure
Aliphatic Solvent	Acute LC50 2200 μg/l Fresh water	Fish - Lepomis macrochirus	4 days

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

- : Not available.
- Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, non- flammable	AEROSOLS
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-	-	<u>Emergency</u> <u>schedules</u> F-D, S- U
	ERG No.	ERG No.	ERG No.		
	126	126	126		
	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.
Special precautions	mode o suitably prior to respons unloadii	dal shipping descrip odal shipping descrip of container sizes. Th f transport (sea, air, for that mode of transhipment, and comp sibility of the person of ng dangerous goods aces and on all action	e presence of a shi etc.), does not indic isport. All packaging liance with the appli offering the product must be trained on	pping description for ate that the product i g must be reviewed f cable regulations is t for transport. People all of the risks derivin	a particular s packaged or suitability he sole loading and
ransport in bulk ac IMO instruments	cording : Not avail	able.			

Section 15. Regulatory information

<u>SARA 313</u>

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

Not applicable.

International regulations

Date of issue/Date of revision

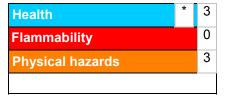
S00701000

Section 15. Regulatory information

International lists	: Australia inventory (AICS): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (ENCS): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan Chemical Substances Inventory (TCSI): Not determined.
	Thailand inventory: Not determined.
	Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas	On basis of test data
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1	Calculation method Calculation method

History Date of printing : 10/15/2020 Date of issue/Date of : 10/15/2020 revision Date of previous issue : 11/29/2019 Version : 8 Key to abbreviations : ATE = Acute Toxicity Estimate **BCF** = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available

Date of issue/Date	of revision	: 10/15/2020	Date of previous issue	: 11/29/2019	Version : 8	12/13	377
S00701000	LU™701 Food Grade N	lachinery Oil Ae	erosol		SHW-85-NA-GHS-US		

Section 16. Other information

SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.



Section 1: Product and Company Identification

Product Name:	LUBRI-JOINT® Water Dispersible Gasket Lubricant
Product Code:	78713
Product Use:	Lubricant for rubber gaskets. Suitable for all types of pipelines, including PVC and soil pipe.
Supplier:	LA-CO Industries, Inc. 1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746 E-mail Contact: customer_service@laco.com
Phone:	(847) 956-7600
Fax:	(847) 956-9885
24-hour Emergency:	CHEMTREC: (800) 424-9300

Section 2: Hazards Identification

Protective Clothing	GHS Classification	WHMIS (Canada)	Transport		
Not Required for Normal Use	Not classified as a hazardous chemical	Not controlled	Not Regulated		
Emergency Overview:	Non-hazardous. Used in potable water si	upply systems, certified to NSF/	ANSI Standard 61-G.		
	Appearance, Color and Odor: off-white	paste, bland odor.			
	USA: This product is not a hazardous ma Communication Standard.	aterial as defined by 29 CFR191	0.1200, OSHA Hazard		
	Canada: This is not a controlled product u	Inder WHMIS.			
	European Union (EU): This product is no No 1272/2008.	t classified as hazardous accord	ling to Regulation (EC)		
Potential Health Effects	ACUTE (short term):				
Relevant Route(s) of Exposure:	Skin contact.	Skin contact.			
Inhalation	Exposure to hazardous substances by inhalation is not expected with normal use.				
Ingestion	Not an expected route of occupational ex is low. Swallowing large amounts of the p				
Skin	Prolonged skin contact may cause mild sl	kin irritation.			
Eye	 Not an expected route of occupational exponential expected. 	posure. Paste may cause mild i	irritation with direct eye		
	CHRONIC (long term): see Section 11 f	or additional toxicological dat	ta		
	Long-term health effects are not expected Prolonged or repeated skin contact may c				
Medical Conditions Aggravated	Not available				
by Exposure: Interactions With Other Chemicals:	Not available				
Potential Environmental Effects	: Not available				



Section 3:	Composition	n / Information	on ingreat	GIIIO		
Chemical Name	<u>)</u>	CAS No.	<u>Wt.%</u>	EINECS / ELINCS	<u>Symbol</u>	Risk Phrases
	No	hazardous/dange	rous ingredien	ts by OSHA, WHMIS and	EU criteria	
Section 4:	First Aid Me	asures				
Inhalation:	If symptoms a	re experienced rem	nove source of	contamination or move vi	ctim to fresh air a	and obtain medical advice
Eye Contact:	No effects expected. If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.					
Skin Contact:		cts expected. If irrit		cur, flush with lukewarm, g	ently flowing wat	er for 5 minutes. If
	•					

Section 5: Fire Fighting Measures

Flammable Properties:	Product will burn if involved in a fire. Flashpoint: >104°C (>220°F)		
Suitable extinguishing Media:	For small fires, use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, use carbon dioxide, dry chemical powder, alcohol-resistant foam or polymer foam. Use water spray to cool fire-exposed containers.		
Unsuitable extinguishing Media:	Do not use water jet on hot, molten product.		
Explosion Data: Sensitivity to Mechanical Impact:	Not applicable		
Sensitivity to Static Discharge:	Not applicable		
Specific Hazards arising from the Chemical:	If involved in a fire, combustion may produce toxic and irritating fumes and gases.		
Protective Equipment and precautions for firefighters:	Self-contained breathing apparatus and protective clothing should be worn. Remove all unprotected personnel.		

Section 6: Accidental Release Measures

Personal Precautions:	Wear protective gloves to prevent skin contact. Contaminated gloves and clothing should be washed before re-use.	
Environmental Precautions:	Prevent the product from entering sewers or waterways.	
Methods for Containment:	Not applicable	
Methods for Clean-up:	Pick up spilled product and collect for re-use or proper disposal. Dispose of any contaminated, unusable product as described in Section 13 of this SDS.	

Section 7:	Handling and Storage
Handling:	Keep out of reach of children. Avoid breathing any fumes from thermal decomposition. Do not ingest.
Storage:	Store out of direct sunlight and away from heat, flames and ignition sources. Keep container closed when not in use.



Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Measurable airborne concentrations of the component substances are not expected when the product is used for its intended purpose.

Exposure Controls		
Engineering Controls:	Not required for normal use.	
Personal Protection:	Wear protective equipment appropriate for the workplace conditions where this product is used.	
Eye/Face Protection:	Not required for normal use. Wear safety glasses or goggles when needed to prevent eye contact.	
Skin Protection:	Not required for normal use. Wear gloves when needed to prevent repeated or prolonged contact.	
Respiratory Protection: Not required for normal use		
General Hygiene Measures:	Avoid contact with the skin. Keep out of reach of children. Wash hands at the end of every work shift and before eating, drinking, smoking or using the toilet.	

Section 9: Physical and Chemical Properties

Physical State:	Semi-solid	Flash Point & method:	>104°C (>220°F)
Appearance, Color and Odor:	Off-white paste, bland odor	Autoignition Temperature:	Not available
Odor Threshold:	Not available	Flammability Limits in Air:	Not available
pH:	8.95 – 9.5	Vapor Pressure:	Not applicable
Relative density (water = 1):	1.26 Bulk density: 10.5 lbs/gal.	Vapor Density (Air = 1):	Not applicable
Partition coefficient:	Not available	Evaporation Rate:	Not applicable
Solubility:	Completely dispersible in water.	Boiling Point/Range:	>104°C (220°F)
Viscosity:	Viscous paste	Freezing Point:	<0°C (32°F)
Decomposition Temperature:	Not available	VOC Content:	33%

Section 10: Stability and Reactivity

Chemical Stability:	Stable at normal room temperature.
Conditions to Avoid:	Avoid contact with strong oxidizing agents.
Incompatible Materials:	Not available
Hazardous Decomposition Products:	Combustion or heating to decomposition may release irritating and toxic fumes.
Possibility of Hazardous Reactions:	Not applicable



Section 11: Toxicological Information

Acute Toxicity Data	Acute toxicity data are not available for the product. Acute toxicity of the component substances is low.
Other Toxicity Data	
Carcinogenicity:	Normal use of this product will not result in exposure to any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program).
Irritation:	No data available. Contains a biodegradable soap component. Soaps can cause mild, reversible irritation to eyes and skin.
Corrosivity:	Not applicable
Sensitization:	Not applicable
Neurological Effects:	Not applicable
Genetic Effects:	Not applicable
Reproductive Effects:	Not applicable
Developmental Effects:	Not applicable
Target Organ Effects:	Not applicable

Section 12: Ecological Information

Ecotoxicity:	Not available
Persistence/Degradability:	Biodegradable soap product.
Bioaccumulation/Accumulation:	Not available
Mobility:	Completely dispersible in water.

Section 13: Disposal Considerations

Waste Disposal Method:Do NOT dump into any sewers, on the ground or into any body of water. Store material for
disposal as indicated in Section 7 Handling and Storage. The conditions of use, storage and
disposal of this product are beyond our control and may be beyond our knowledge. For this and
other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim
liability for loss, damage or expense arising out of or in any way connected with the handling,
storage, use or disposal of this product.

Waste must be disposed of in accordance with relevant EU Directives and national, regional and local environmental control regulations.

Section 14: Transport Information:

U.S. Hazardous Materials Regulation (DOT 49CFR):	Not regulated
Canadian Transportation of Dangerous Goods (TDG):	Not regulated
IMDG:	Not regulated
ICAO/IATA:	Not regulated



Section 15: Regulatory Information

USA TSCA Status:	All component substances are listed on the TSCA inventory.
TOOA Olalus.	All component substances are listed on the TOOA inventory.
SARA Title III Sec. 302/304: Sec: 311/312: Sec. 313: CERCLA RQ:	Not applicable
California Prop 65:	This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.
<u>Canada</u>	This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations</i> and the MSDS contains all the information required by the <i>Controlled Products Regulations</i> .
WHMIS Classification:	Not controlled.
NSNR:	All component substances are listed on Canada's Domestic Substances List (DSL).
NPRI Substances:	Not applicable
EU Classification European Inventories:	All component substances are listed in EINECS.
Symbol:	This article is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Section 16: Other Information		
Preparation Information:		
Revision Date:	September 27, 2012	
Revision Summary:	Section 9: Revised physical and chemical properties information.	
Supplier Note: Prepared by:	The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein. LEHDER Environmental Services Limited (519) 336-4101 www.lehder.com While LEHDER Environmental Services Limited believes that the data set forth herein is accurate, as of the date hereof, LEHDER makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.	

82012

Section 1. Identification

Product name	: Marking Paint Fluorescent Orange
Product code	: 82012
Other means of identification	: Not available.
Product type	: Aerosol.
Relevant identified uses of th	e substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: Valspar 101 W. Prospect Avenue Cleveland, OH 44115

Emergency telephone number of the company	: (800) 424-9300
Product Information Telephone Number	: 1-877-825-7727
Regulatory Information Telephone Number	: (216) 566-2902
Transportation Emergency Telephone Number	: (800) 424-9300

Section 2. Hazards identification

Fluorescent Orange

	(29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 38.5% (oral), 38.5% (dermal), 41.8% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Date of issue/Date of revision 82012 Marking Pain	: 10/9/2020 Date of previous issue : 5/14/2020 Version : 7 1/16 t SHW-85-NA-GHS-US

Section 2. Hazards identification

Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
General	 Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention.
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

Section 3. Composition/information on ingredients

Substance/mixture : Other means of : identification

: Mixture

: Not available.

CAS number/other identifiers

: 10/9/2020 Date of previous issue

Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Lt Aliphatic Hydrocarbon Solvent	≥10 - ≤25	64742-89-8
Propane	≥10 - ≤25	74-98-6
Calcium Carbonate	≥10 - ≤25	1317-65-3
Butane	≤10	106-97-8
Heavy Aliphatic Solvent	≤5	64742-47-8
Isobutyl Acetate	≤5	110-19-0
Light Aliphatic Hydrocarbon Solvent	<1	68410-97-9
Xylene, mixed isomers	≤0.3	1330-20-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	No known significant effects or critical hazards.	
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.	
Skin contact	Causes skin irritation.	
Ingestion	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.	

Over-exposure signs/symptoms

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	Fluorescent Orange						

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Fluorescent Orange

Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire	
Unsuitable extinguishing media	: None known.	
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create a fire or if heated, a pressure increase will occur and the co risk of a subsequent explosion. Gas may accumulate in low a considerable distance to a source of ignition and flash bar Bursting aerosol containers may be propelled from a fire at	ntainer may burst, with the w or confined areas or travel ck, causing fire or explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials carbon dioxide carbon monoxide metal oxide/oxides	s:
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82012 Marking Paint		SHW-85-NA-GHS-US

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures
 Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

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Section 7. Handling and storage

Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Lt Aliphatic Hydrocarbon Solvent	64742-89-8	None.
Propane	74-98-6	NIOSH REL (United States, 10/2016).
		TWA: 1000 ppm 10 hours.
		TWA: 1800 mg/m ³ 10 hours.
		OSHA PEL (United States, 5/2018).
		TWA: 1000 ppm 8 hours.
		TWA: 1800 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2020). Oxygen
		Depletion [Asphyxiant]. Explosive potential
Oslaine Oscharste	4047.05.0	
Calcium Carbonate	1317-65-3	OSHA PEL (United States, 5/2018).
		TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
		TWA: 15 mg/m ³ 8 hours. Form: Total dust
		NIOSH REL (United States, 10/2016).
		TWA: 5 mg/m ³ 10 hours. Form: Respirable
		fraction
		TWA: 10 mg/m ³ 10 hours. Form: Total
Butane	106-97-8	NIOSH REL (United States, 10/2016).
Dutano		TWA: 800 ppm 10 hours.
		TWA: 1900 mg/m ³ 10 hours.
		ACGIH TLV (United States, 3/2020).
		Explosive potential.
		STEL: 1000 ppm 15 minutes.
Heavy Aliphatic Solvent	64742-47-8	ACGIH TLV (United States, 3/2020).
		Absorbed through skin.
		TWA: 200 mg/m ³ , (as total hydrocarbon
		vapor) 8 hours.
Isobutyl Acetate	110-19-0	NIOSH REL (United States, 10/2016).
		TWA: 150 ppm 10 hours.
		TWA: 700 mg/m ³ 10 hours.
		OSHA PEL (United States, 5/2018).
		TWA: 150 ppm 8 hours.
		TWA: 700 mg/m ³ 8 hours.
		ACGIH TLV (United States, 3/2020). STEL: 150 ppm 15 minutes.
		TWA: 50 ppm 8 hours.
Light Alighetic Lludgecenhen Celugat	00440.07.0	
Light Aliphatic Hydrocarbon Solvent Xylene, mixed isomers	68410-97-9 1330-20-7	None. ACGIH TLV (United States, 3/2020).
Aylerie, mixed isomers	1330-20-7	TWA: 100 ppm 8 hours.
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TWA: 434 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours.
TWA: 435 mg/m ³ 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Normal propane	74-98-6	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 1000 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2020). Oxygen Depletion [Asphyxiant]. Explosive potential.
Butane	106-97-8	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 800 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2020). Explosive potential. STEL: 1000 ppm 15 minutes.
Petroleum refining, hydrotreated light distillate	64742-47-8	 CA British Columbia Provincial (Canada, 1/2020). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. 8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours. CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.
Isobutyl acetate	110-19-0	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 150 ppm 8 hours. 8 hrs OEL: 713 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 150 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019).
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		TWA: 150 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 150 ppm 8 hours. TWAEV: 713 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 188 ppm 15 minutes. TWA: 150 ppm 8 hours.
Xylene	1330-20-7	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2019). TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes. CA Ontario Provincial (Canada, 6/2019). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. TEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours. TWA: 100 ppm 15 minutes. TEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Propane	74-98-6	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.
Butane	106-97-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.
Heavy Aliphatic Solvent	64742-47-8	ACGIH TLV (United States, 3/2020). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Isobutyl Acetate	110-19-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 150 ppm 8 hours.

Appropriate engineering : controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: 8
Melting point/freezing point	: Not available.
Boiling point/boiling range	: Not available.
Flash point	: Closed cup: -19°C (-2.2°F) [Tagliabue Closed Cup]
Evaporation rate	: 4.2 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1% Upper: 9.5%
Vapor pressure	: 101.3 kPa (760 mm Hg) [at 20°C]
Vapor density	: 1 [Air = 1]
Relative density	: 0.82
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
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Section 9. Physical and chemical properties

Decomposition temperature	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)
Molecular weight	:	Not applicable.
<u>Aerosol product</u>		
Type of aerosol	:	Spray
Heat of combustion	1	21.972 kJ/g

Section 10. Stability and reactivity Reactivity No specific test data related to reactivity available for this product or its ingredients

Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: No specific data.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product of its ingredients.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
Isobutyl Acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
,	LD50 Oral	Rat	13400 mg/kg	-
Light Aliphatic Hydrocarbon Solvent	LD50 Oral	Rat	5.17 g/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas. LD50 Oral	Rat Rat	6700 ppm 4300 mg/kg	4 hours -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isobutyl Acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
-	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	-			mg	
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-

Sensitization

Not available.

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Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Xylene, mixed isomers	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Lt Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Propane	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Butane	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Heavy Aliphatic Solvent	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Isobutyl Acetate	Category 3	-	Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Lt Aliphatic Hydrocarbon Solvent	Category 2	-	-
Propane	Category 2	-	-
Butane	Category 2	-	-
Heavy Aliphatic Solvent	Category 2	-	-
Light Aliphatic Hydrocarbon Solvent	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-

Aspiration hazard

Name	Result
Lt Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Propane	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Heavy Aliphatic Solvent	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1

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Information on the likely routes of exposure	: Not available.	
Potential acute health effe	<u>cts</u>	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: Can cause central nervous system (CNS) depression. May cause respiratory irritation.	ause drowsiness or
Skin contact	: Causes skin irritation.	
Ingestion	: Can cause central nervous system (CNS) depression. May be enters airways.	e fatal if swallowed and
Symptoms related to the p	hysical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations	
Delayed and immediate eff Short term exposure	ects and also chronic effects from short and long term expos	sure
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health ef	f <u>ects</u>	
Not available.		
General	: May cause damage to organs through prolonged or repeated	exposure.
Carcinogenicity	: No known significant effects or critical hazards.	
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: No known significant effects or critical hazards.

Mutagenicity Teratogenicity Developmental effects Fertility effects

Suspected of damaging the unborn child.No known significant effects or critical hazards.

: Suspected of damaging fertility.

Numerical measures of toxicity Acute toxicity estimates Not available.

Section 12. Ecological information

<u>oxicity</u>							
Product/ingredient name	Result	sult Species					
Lt Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours				
Heavy Aliphatic Solvent	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days				
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours				
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours				

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene, mixed isomers	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Lt Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Xylene, mixed isomers	-	8.1 to 25.9	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a

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Section 13. Disposal considerations

safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-	-	<u>Emergency</u> <u>schedules</u> F-D, S U
	ERG No.	ERG No.	ERG No.		
	126 Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	126 Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	126 Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.
Special precautions ransport in bulk ac o IMO instruments	mode o suitably prior to respons unloadi substar	er container sizes. The f transport (sea, air, or for that mode of trans shipment, and comp sibility of the person of ng dangerous goods nees and on all action	e presence of a ship etc.), does not indica isport. All packaging liance with the appli offering the product must be trained on	oping description for ate that the product is must be reviewed for cable regulations is to for transport. People all of the risks derivir	a particular s packaged or suitability he sole loading and

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Section 15. Regulatory information

<u>SARA 313</u>

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

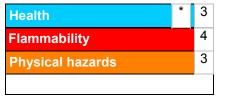
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists	 Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan Chemical Substances Inventory (TCSI): Not determined. Thailand inventory: Not determined. Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method
History	<u> </u>

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Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/21/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Trade name	: METHYL ETHYL KETONE (MEK)
CAS-No.	: 78-93-3
Product code	: TS109
Formula	: C4H8O
Synonyms	: 2-butanone / 2-oxobutane / 3-butanone / acetone, methyl- / Al3-07540 / butan-2-one / butanone / Caswell NO 569 / ethyl methyl ketone / Ethyl methyl ketone (methyl ethyl ketone) / EXXON methylethyl ketone / FEMA N°. 2170 / ketone, ethyl methyl- / meetco / MEK (= methyl ethyl ketone) / methyl 2-propanone / methyl acetone
BIG no	: 10074
1.2. Relevant identified uses of the subst	tance or mixture and uses advised against
Use of the substance/mixture	: Solvent Chemical raw material
1.3. Details of the supplier of the safety of	data sheet
1801 W. Sheridan Oklahoma City, 73106 - United States T 1-405-232-8580 crownpaint@polyglasscoatings.com - www.crown	npaintok.com
1.4. Emergency telephone number	
Emergency number	 In the event of an emergency involving dangerous goods: in Canada call CANUTEC at 613-996-6666 or *666 on a cellular phone. in the US call CHEMTREC at 800-424-9300 (Account Name for US is Polyglass Coatings)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
GHS-US classification	
Flam. Liq. 2 H225 - Highly flammable liquid ar Eye Irrit. 2 H319 - Causes serious eye irritati STOT SE 3 H336 - May cause drowsiness or	ion
Full text of H statements : see section 16	
2.2. Label elements	
2.2. Label elements GHS-US labeling	

GHS02	GHS07

Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapour H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness
Precautionary statements (GHS-US)	 P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge.

P264 - Wash thoroughly after handling

P204 - Wash tholoughly alter harding
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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	lenses, if present and easy to do. (P312 - Call a poison center or a do P337+P313 - If eye irritation persis	se cautiously with water Continue rinsing octor if you feel unwell its: Get medical advice/ ry chemical powder, ald ated place. Keep contai ated place. Keep cool.	r for several minutes. Remove contact attention. cohol-resistant foam, carbon dioxide ner tightly closed.
2.3. Other hazards			
No additional information available	0)		
2.4. Unknown acute toxicity (GHS US Not applicable	5)		
SECTION 3: Composition/Informa	ation on ingredients		
3.1. Substances			
Name	Product identifier	%	GHS-US classification
methanol (Main constituent)	(CAS-No.) 78-93-3	100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Full text of H-phrases: see section 16			
3.2. Mixtures			
Not applicable			
SECTION 4: First aid measures 1.1. Description of first aid measures			
			e airway and respiration. Respiratory
	arrest: artificial respiration or oxyge with laboured breathing: half-seate	en. Cardiac arrest: perfo d. Victim in shock: on h ion pneumonia. Preven ctim. Give psychologica	orm resuscitation. Victim conscious his back with legs slightly raised. It cooling by covering the victim (no al aid. Keep the victim calm, avoid
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	arrest: artificial respiration or oxyge with laboured breathing: half-seate Vomiting: prevent asphyxia/aspirat warming up). Keep watching the vi physical strain. Depending on the vi	en. Cardiac arrest: perfo d. Victim in shock: on h ion pneumonia. Preven ctim. Give psychologica victim's condition: docto espiratory problems: co er. Soap may be used.	orm resuscitation. Victim conscious his back with legs slightly raised. It cooling by covering the victim (no al aid. Keep the victim calm, avoid hr/hospital. honsult a doctor/medical service.
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5.2.	Special hazards arising from the subs	tance or mixture
Fire haza	rd :	DIRECT FIRE HAZARD: Highly flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD: May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosior	hazard :	DIRECT EXPLOSION HAZARD: Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD: may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".
Reactivity		On heating: peroxidation resulting in increased fire or explosion risk. Upon combustion: CO and CO2 are formed. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with many compounds e.g.: with (some) halogens compounds, alcohols and with (some) acids/bases. Prolonged storage: peroxidation resulting in increased fire or explosion risk.
5.3.	Advice for firefighters	
Firefightir	ng instructions :	Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.
SECTIO	DN 6: Accidental release measu	res
6.1.	Personal precautions, protective equip	oment and emergency procedures
6.1.1.	For non-emergency personnel	
		Gloves. Protective goggles. Protective clothing. See "Material-Handling" to select protective clothing.
Emergen	cy procedures :	Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.
6.1.2.	For emergency responders	
Protective	e equipment :	Do not attempt to take action without suitable protective equipment.
6.2.	Environmental precautions	
Prevent s	preading in sewers.	
6.3.	Methods and material for containment	and cleaning up
For conta	inment :	Contain released product, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.
Methods -	for cleaning up :	Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.
6.4.	Reference to other sections	
No additio	onal information available	
SECTIO	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ons for safe handling :	Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Avoid prolonged and repeated contact with skin. Keep container tightly closed. Before use: check for peroxides and eliminate them. Measure the concentration in the air regularly. Work under local exhaust/ventilation.
Hygiene r	measures :	Do not eat, drink or smoke when using this product. Always wash hands after handling the

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothes. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Keep container tightly closed.	
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.	
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Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. halogens. alcohols. amines.
Storage area	: Store in a cool area. Keep out of direct sunlight. Store in a dark area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. May be stored under inert gas. Meet the legal requirements.
Special rules on packaging	 SPECIAL REQUIREMENTS: closing. dry. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: stainless steel. monel steel. carbon steel. MATERIAL TO AVOID: synthetic material. synthetic material.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

METHYL ETHYL KETONE (MEK) (78-93-3)		
ACGIH	ACGIH TWA (ppm)	200 ppm (Methyl ethyl ketone (MEK); USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	300 ppm (Methyl ethyl ketone (MEK); USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	URT irr; CNS & PNS impair
OSHA	OSHA PEL (TWA) (mg/m ³)	590 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: butyl rubber. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: natural rubber. neoprene. nitrile rubber. polyethylene. PVC. viton.
Hand protection	: Gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Head/neck protection. Protective clothing.
Respiratory protection	: Insufficient ventilation: wear respiratory protection.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physica	al and chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Color	: Colourless
Odor	: Sweet odour Acetone odour
Odor threshold	: 2 - 85 ppm 6 - 251 mg/m ³
рН	: No data available
Melting point	: -86 °C (1013 hPa)
Freezing point	: No data available
Boiling point	: 80 °C (1013 hPa) -176 °F
Critical temperature	: 263 °C
Critical pressure	: 41550 hPa
Flash point	: -9 °C 15.8 °F
Relative evaporation rate (butyl acetate=	1) : 6
Relative evaporation rate (ether=1)	: 2.7
Flammability (solid, gas)	: No data available
Explosion limits	: 1.5 - 12 vol % 45 - 378 g/m ³

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Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 105 hPa (20 °C)
Vapor pressure at 50 °C	: 370 hPa (50 °C)
Relative density	: 0.81 (20 °C)
Relative vapor density at 20 °C	: 2.4
Relative density of saturated gas/air mixture	: 1.2
Specific gravity / density	: 810 kg/m³ (20 °C)
Molecular mass	: 72.11 g/mol
Solubility	 Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in oil. Water: 28 g/100ml Ethanol: Complete Ether: Complete Acetone: Complete
Log Pow	: 0.3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Auto-ignition temperature	: 404 °C 759 °F
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.00041 Pa.s (25 °C)
9.2. Other information	
Minimum ignition energy	: 0.53 mJ
Specific conductivity	: 36000 pS/m
Saturation concentration	: 311 g/m³
VOC content (Regulatory - Less water and exempt solvents)	: 100 %
Other properties	Gas/vapour heavier than air at 20°C. Clear. Volatile.

SECTION 10: Stability and reactivity

10.1. Reactivity

On heating: peroxidation resulting in increased fire or explosion risk. Upon combustion: CO and CO2 are formed. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with many compounds e.g.: with (some) halogens compounds, alcohols and with (some) acids/bases. Prolonged storage: peroxidation resulting in increased fire or explosion risk.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

amines. acids. strong acids. Strong bases. Oxidizing agent. Ammonia. copper. Copper alloys. Halogenated compounds. nitric acid. Hydrogen peroxide. Isocyanates. Strong mineral acids.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Likely routes of exposure	: Inhalation; Ingestion; Skin and eyes contact.	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	 Irritation of the nasal mucous membranes. Nausea. Headache. EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract. Central nervous system depression. Dizziness. Mental confusion. Narcosis. Disturbances of consciousness.
Symptoms/effects after skin contact	: Red skin. ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.
Symptoms/effects after eye contact	: Irritation of the eye tissue. Inflammation/damage of the eye tissue.
Symptoms/effects after ingestion	 AFTER INGESTION OF HIGH QUANTITIES: Symptoms similar to those listed under inhalation. Risk of aspiration pneumonia.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Itching. Skin rash/inflammation.

SECTION 12: Ecological inf	ormation
12.1. Toxicity	
Ecology - general	 Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. Not classified as dangerous for the environment according to the criteria of Directive 67/548/EEC.
Ecology - air	 Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.5.
Ecology - water	 Groundwater pollutant. Not harmful to fishes (LC50(96h) >1000 mg/l). Slightly harmful to invertebrates (Daphnia) (EC50 (48h): 100 - 1000 mg/l). Not harmful to algae (EC50 (72h) >1000 mg/l). Not harmful to bacteria (EC50 >1000 mg/l). Not harmful to activated sludge.
METHYL ETHYL KETONE (MEK)	(78-93-3)

EC50 Daphnia 1	308 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	2993 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Static system; Fresh water; Experimental value)

12.2. Persistence and degradability

METHYL ETHYL KETONE (MEK) (78-93-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions.
Biochemical oxygen demand (BOD)	2.03 g O₂/g substance
Chemical oxygen demand (COD)	2.31 g O₂/g substance
ThOD	2.44 g O₂/g substance
BOD (% of ThOD)	> 0.5 (5 days; Literature study)

12.3. **Bioaccumulative potential**

METHYL ETHYL KETONE (MEK) (78-93-3)	
Log Pow	0.3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

METHYL ETHYL KETONE (MEK) (78-93-3)	
Surface tension	0.024 N/m (20 °C)
Log Koc	Koc,34; Calculated value
Ecology - soil	Slightly harmful to plants.

12.5. Other adverse effects

No additional information available

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal consideration 13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.
Additional information	 Do not reuse empty containers. Handle empty containers with care because residual vapors are flammable.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Transport document description	: UN1193 Methyl ethyl ketone, 3, II
UN-No.(DOT) Proper Shipping Name (DOT)	: UN1193 : Methyl ethyl ketone
Class (DOT) Hazard labels (DOT)	 : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquid
	FLAMMABLE LIQUE
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx)	: II - Medium Danger : 202
DOT Packaging Bulk (49 CFR 173.xxx) DOT Special Provisions (49 CFR 172.102)	 242 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	. 00 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.
Fransportation of Dangerous Goods	
ransport document description	: UN1193 METHYL ETHYL KETONE (METHYL ETHYL KETONE), 3, II
JN-No. (TDG) Proper Shipping Name (Transportation of Dangerous Goods)	: UN1193 : METHYL ETHYL KETONE
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Packing group	: II - Medium Danger
Explosive Limit and Limited Quantity Index	: 1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5
12/21/2018	EN (English US) 7/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Transport by sea

UN-No. (IMDG)	: 1193
Proper Shipping Name (IMDG)	: ETHYL METHYL KETONE (METHYL ETHYL KETONE)
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
EmS-No. (1)	: F-E
EmS-No. (2)	: S-D

Air transport

No additional information available

SECTION 15: Regulatory information		
15.1. US Federal regulations		
METHYL ETHYL KETONE (MEK) (78-93-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not listed on SARA Section 313 (Specific toxic chemical listings)		
CERCLA RQ	5000 lb	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

METHYL ETHYL KETONE (MEK) (78-93-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations				
METHYL ETHYL KETONE (MEK) (78-93-3)				
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List			

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

H225 Highly flammable liquid and vapour	
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

SDS US Endura

The information contained here has been compiled from sources considered by Endura Manufacturing Co. Ltd to be dependable and is accurate to the best of the Company's knowledge. However, neither Endura Manufacturing Co. Ltd or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain

hazards are described herein, we cannot guarantee that these are the only hazards which exist.



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SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name:MOBIL DTE 24Product Description:Base Oil and AdditivesProduct Code:201560102010,602623-00,970972Intended Use:Hydraulic fluid

COMPANY IDENTIFICATION

Supplier:

EXXON MOBIL CORPORATION 22777 Springwoods Village Parkway Spring, TX 77389 USA cy 6

24 Hour Health Emergency Transportation Emergency Phone Product Technical Information MSDS Internet Address 609-737-4411 800-424-9300 or 703-527-3887 CHEMTREC 800-662-4525 www.exxon.com, www.mobil.com

SECTION 2

HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

Other hazard information:

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1910.1200.

PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

ENVIRONMENTAL HAZARDS

No significant hazards.

NFPA Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0
HMIS Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0



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NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#		GHS Hazard Codes
		Concentration*	
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	0.1 - < 1%	H400(M factor 1),
			H410(M factor 1)
CALCIUM SULFONATE	57855-77-3	0.1 - < 1%	H315, H319(2A), H317
PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYL	68442-22-8	0.1 - < 1%	H303, H315, H318, H401,
HEXYL AND ISO-BU) ESTERS, ZINC SALTS.			H411

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA



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Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Pressurized mists may form a flammable mixture.

Hazardous Combustion Products: Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulfur oxides

FLAMMABILITY PROPERTIES

Flash Point [Method]: >200°C (392°F) [ASTM D-92] Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0 Autoignition Temperature: N/D

SECTION 6

ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.



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Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7

HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Star	ndard	NOTE	Source
2,6-DI-TERT-BUTYL-P-CRESOL	Inhalable fraction and vapor	TWA	2 mg/m3	N/A	ACGIH

Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur the following are recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction), 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.



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> Control measures to consider: No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION Physical State: Liquid Color: Brown



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Odor: Characteristic Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION Relative Density (at 15.6 °C): 0.871 Flammability (Solid, Gas): N/A Flash Point [Method]: >200°C (392°F) [ASTM D-92] Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0 Autoignition Temperature: N/D **Boiling Point / Range:** > 316°C (600°F) Decomposition Temperature: N/D Vapor Density (Air = 1): > 2 at 101 kPa Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C Evaporation Rate (n-butyl acetate = 1): N/D pH: N/A Log Pow (n-Octanol/Water Partition Coefficient): > 3.5 Solubility in Water: Negligible Viscosity: 32 cSt (32 mm2/sec) at 40 °C | 5.3 cSt (5.3 mm2/sec) at 100°C [ASTM D 445] **Oxidizing Properties:** See Hazards Identification Section.

OTHER INFORMATION

Freezing Point:N/DMelting Point:N/APour Point:-18°C (0°F)DMSO Extract (mineral oil only), IP-346:< 3 %wt</th>

SECTION 10

STABILITY AND REACTIVITY

REACTIVITY: See sub-sections below.

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks
Inhalation	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
Ingestion	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.



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material.	
Skin	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
Eye	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
Sensitization	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.
Germ Cell Mutagenicity: No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
Carcinogenicity: No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
Reproductive Toxicity: No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

OTHER INFORMATION

For the product itself:

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

The following ingredients are cited on the lists below: None.

REGULATORY LISTS SEARCHED			
1 = NTP CARC	3 = IARC 1	5 = IARC 2B	
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC	

SECTION 12

ECOLOGICAL INFORMATION



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 8 of 11

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

OTHER ECOLOGICAL INFORMATION

VOC: 0 G/L [ASTM E1868-10]

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 9 of 11

SECTION 14 TRANSPORT INFORMATION

- LAND (DOT): Not Regulated for Land Transport
- LAND (TDG): Not Regulated for Land Transport
- SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

Listed or exempt from listing/notification on the following chemical inventories: AICS, DSL, ENCS, IECSC, ISHL, KECI, PICCS, TCSI, TSCA

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA (311/312) REPORTABLE GHS HAZARD CLASSES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYL HEXYL AND ISO-BU) ESTERS, ZINC SALTS.	68442-22-8	15
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	19

--REGULATORY LISTS SEARCHED--1 = ACGIH ALL 6 = TSCA 5a2 11 = CA P65 REPRO 16 = MN RTK



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2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H303: May be harmful if swallowed; Acute Tox Oral, Cat 5

H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

H317: May cause allergic skin reaction; Skin Sensitization, Cat 1

H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1

H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A

H400: Very toxic to aquatic life; Acute Env Tox, Cat 1

H401: Toxic to aquatic life; Acute Env Tox, Cat 2

H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Component Table information was modified.

Section 01: Company Contact Methods information was modified.

Section 01: Company Mailing Address information was modified.

Section 07: Handling and Storage - Handling information was modified.

Section 07: Handling and Storage - Storage Phrases information was modified.

Section 09: Vapor Pressure information was added.

Section 11 Acute Toxicity data - Header information was deleted.

Section 11 Substance Name - Header information was deleted.

Section 11 Substance Toxicity table - Header information was deleted.

Section 11 Substance Toxicology table information was deleted.

Section 11: Other Health Effects information was modified.

Section 12: information was modified.

Section 14: Marine Pollutant information was modified.

Section 15: List Citations Table information was modified.

Section 15: National Chemical Inventory Listing information was modified.

Section 15: SARA (311/312) REPORTÁBLE GHS HAZARD CLASSES information was added.

Section 15: SARA (311/312) REPORTABLE HAZARD CATEGORIES information was deleted.

Section 16: HCode Key information was modified.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 11 of 11

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SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT Product Name: MOBIL DTE 24 Product Description: Base Oil and Additives Product Code: 201560102010, 602623-00, 970972 Intended Use: Hydraulic fluid

COMPANY IDENTIFICATION

 Supplier:
 EXXON MOBIL CORPORATION

 22777 Springwoods Village Parkway

 Spring, TX
 77389

 USA

 24 Hour Health Emergency
 609-737-4411

 Transportation Emergency Phone
 800-424-9300 or 703-527-3887 CHEMTREC

 Product Technical Information
 800-662-4525

 MSDS Internet Address
 www.exxon.com, www.mobil.com

SECTION 2

SECTION 1

HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

Other hazard information:

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1910.1200.

PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

ENVIRONMENTAL HAZARDS

No significant hazards.

NFPA Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0
HMIS Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 2 of 11

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#		GHS Hazard Codes
		Concentration*	
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	0.1 - < 1%	H400(M factor 1),
			H410(M factor 1)
CALCIUM SULFONATE	57855-77-3	0.1 - < 1%	H315, H319(2A), H317
PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYL	68442-22-8	0.1 - < 1%	H303, H315, H318, H401,
HEXYL AND ISO-BU) ESTERS, ZINC SALTS.			H411

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek if breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA



Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Pressurized mists may form a flammable mixture.

Hazardous Combustion Products: Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulfur oxides

FLAMMABILITY PROPERTIES

Flash Point [Method]: >200°C (392°F) [ASTM D-92]Flammable Limits (Approximate volume % in air):LEL: 0.9UEL: 7.0Autoignition Temperature:N/D

SECTION 6

ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 4 of 11

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Star	ndard	NOTE	Source
2,6-DI-TERT-BUTYL-P-CRESOL	Inhalable fraction and vapor	TWA	2 mg/m3	N/A	ACGIH

Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur the following are recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction), 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

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Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State:LiquidColor:Brown



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 6 of 11

> Odor: Characteristic Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 °C): 0.871 Flammability (Solid, Gas): N/A >200°C (392°F) [ASTM D-92] Flash Point [Method]: Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0 Autoignition Temperature: N/D Boiling Point / Range: > 316°C (600°F) Decomposition Temperature: N/D Vapor Density (Air = 1): > 2 at 101 kPa Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C Evaporation Rate (n-butyl acetate = 1): N/D pH: N/A Log Pow (n-Octanol/Water Partition Coefficient): > 3.5 Solubility in Water: Negligible Viscosity: 32 cSt (32 mm2/sec) at 40 °C | 5.3 cSt (5.3 mm2/sec) at 100°C [ASTM D 445] **Oxidizing Properties:** See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/D Melting Point: N/A Pour Point: -18°C (0°F) DMSO Extract (mineral oil only), IP-346: <3 %wt

SECTION 10

STABILITY AND REACTIVITY

REACTIVITY: See sub-sections below.

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks		
Inhalation			
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.		
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.		
Ingestion			
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.		

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Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 7 of 11

material.	
Skin	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
Eye	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
Sensitization	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.
Germ Cell Mutagenicity: No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
Carcinogenicity: No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
Reproductive Toxicity: No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

OTHER INFORMATION

For the product itself:

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

The following ingredients are cited on the lists below: None.

	REGULATORY LISTS SEARCHED				
1 = NTP CARC	3 = IARC 1	5 = IARC 2B			
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC			

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SECTION 12
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ECOLOGICAL INFORMATION



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 8 of 11

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

OTHER ECOLOGICAL INFORMATION

VOC: 0 G/L [ASTM E1868-10]

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 9 of 11

SECTION 14 TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

Listed or exempt from listing/notification on the following chemical inventories: AICS, DSL, ENCS, IECSC, ISHL, KECI, PICCS, TCSI, TSCA

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA (311/312) REPORTABLE GHS HAZARD CLASSES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:

1 = ACGIH ALL

Chemical Name	CAS Number	List Citations
PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYL HEXYL AND ISO-BU) ESTERS, ZINC SALTS.	68442-22-8	15
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	19

	REGULAT	ORY LISTS SEARCHED	
-	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK



Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 10 of 11

2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

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H317: May cause allergic skin reaction; Skin Sensitization, Cat 1

H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1

H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A

H400: Very toxic to aquatic life; Acute Env Tox, Cat 1

H401: Toxic to aquatic life; Acute Env Tox, Cat 2

H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

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Product Name: MOBIL DTE 24 Revision Date: 11 Jul 2019 Page 11 of 11

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PPEC: A

DGN: 2007783XUS (1014069)

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MOLYKOTE(R) G-0050 FM WHITE EP BEARING GREASE

SECTION 1: Identification of the substance/mixture and of the company/un 1.1 Product identifier Trade name : MOLYKOTE(R) G-0050 FM WHITE EP BEARING Product code : 0000000004051671, 0000000004051671 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Sub- : Lubricants and lubricant additives stance/Mixture : Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Telephone : English Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511149 Italiano Tel: +32 64511163 E-mail address of person : sdseu@dowcorning.com responsible for the SDS 1.4 Emergency telephone number Dow Corning (Barry U.K. 24h) Tel: +44 1446732350 Dow Corning (Seneffe 24h) Tel: +32 64 888240 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture		Revision Date: 04.01.2016		lumber: 9-00007	Date of last issue: 14.10.2015 Date of first issue: 03.12.2014
1.1 Product identifier Trade name : MOLYKOTE(R) G-0050 FM WHITE EP BEARING Product code : 00000000004051671, 0000000004051671 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Sub- : Lubricants and lubricant additives stance/Mixture : Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Telephone : English Tel: +49 611237507 Deutsch Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163 E-mail address of person : sdseu@dowcorning.com responsible for the SDS 1.4 Emergency telephone number Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Seneffe 24h) SECTION 2: Hazards identification	CTION 1:	Identification of	the sul	ostance/mi	xture and of the company/undertaking
Product code : 0000000004051671, 0000000004051671 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Sub-					
1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/Mixture : Lubricants and lubricant additives 1.3 Details of the supplier of the safety data sheet : Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Telephone : English Tel: +49 611237507 Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163 E-mail address of person responsible for the SDS : sdseu@dowcorning.com 1.4 Emergency telephone number Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +32 64 888240 SECTION 2: Hazards identification : Hazards identification	Trade na	ime	: M0	OLYKOTE(R	G-0050 FM WHITE EP BEARING GREASE
Use of the Sub- stance/Mixture : Lubricants and lubricant additives 1.3 Details of the supplier of the safety data sheet Company : Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Telephone : English Tel: +49 611237507 Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163 E-mail address of person responsible for the SDS : sdseu@dowcorning.com 1.4 Emergency telephone number Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240 SECTION 2: Hazards identification	Product	code	: 00	0000000004	051671, 000000000004051671
stance/Mixture 1.3 Details of the supplier of the safety data sheet Company : Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Telephone : English Tel: +49 611237507 Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163 E-mail address of person responsible for the SDS : sdseu@dowcorning.com 1.4 Emergency telephone number Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240 SECTION 2: Hazards identification	Relevant	identified uses of t	he subs	stance or mi	xture and uses advised against
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Company : Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Telephone : English Tel: +49 611237507 Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163 E-mail address of person responsible for the SDS : sdseu@dowcorning.com 1.4 Emergency telephone number Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240 SECTION 2: Hazards identification	Details of	f the supplier of the	safety	data sheet	
Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163 E-mail address of person : sdseu@dowcorning.com responsible for the SDS : sdseu@dowcorning.com I.4 Emergency telephone number Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240 SECTION 2: Hazards identification SECTION 2: Hazards identification		••	: Do rue	w Corning E e Jules Borde	et - Parc Industriel - Zone C
responsible for the SDS 1.4 Emergency telephone number Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240 SECTION 2: Hazards identification	Telephor	ne	De Fra Ita	eutsch Tel: ançais Tel: liano Tel:	+49 611237500 +32 64511149 +32 64511170
Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240 SECTION 2: Hazards identification			: sd	seu@dowco	ning.com
Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240 SECTION 2: Hazards identification	Emergen	cv telephone numb	er		
	Dow Cor Dow Cor	ning (Barry U.K. 24h ning (Wiesbaden 24	i) Tél: +4 h) Tél: ·	+49 6112215	
2.1 Classification of the substance or mixture	CTION 2	Hazards identifi	cation		
	Classifica	ation of the substa	nce or n	nixture	
Classification (REGULATION (EC) No 1272/2008)	Classific	ation (REGULATIO	N (EC)	No 1272/200	8)

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)	
Hazard pictograms		
Hazard statements	: H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	: Prevention: P273	Avoid release to the environment.

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		Response: P391	Collect spillage.	

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Organic grease

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
White mineral oil (petroleum)	8042-47-5 232-455-8 01-2119487078-27	Asp. Tox. 1; H304	>= 70 - < 90
Zinc oxide	1314-13-2 215-222-5 01-2119463881-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.5 - < 10

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders	: No special precautions are necessary for first aid responders.
If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	: Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically and supportively.
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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media : Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Unsuitable extinguishing : None known. media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire-: Exposure to combustion products may be a hazard to health. fighting Hazardous combustion prod-: Carbon oxides Metal oxides ucts 5.3 Advice for firefighters Special protective equipment : Wear self-contained breathing apparatus for firefighting if necfor firefighters essary. Use personal protective equipment. Specific extinguishing meth-: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. ods Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do SO. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Follow safe handling advice and personal protective equip- ment recommendations.

6.2 Environmental precautions

Environmental precautions	 Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
	Clean up remaining materials from spill with suitable absor-

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bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

r. i Frecautions for sale nationing	
Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	 Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
7.2 Conditions for safe storage, in	cluding any incompatibilities
Requirements for storage areas and containers	: Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	: Do not store with the following product types: Strong oxidizing agents

7.3 Specific end use(s)

Specific use(s)

: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No. Value type (Form of exposure)		Control parameters	Basis		
Calcium carbonate	471-34-1 TWA (inhalable dust)		10 mg/m3	GB EH40		
Further information	For the purposes of these limits, respirable dust and inhalable dust are those					

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	in a sam COS kinc 8-hc This abo pos con of a bod HSE ble' mat ava to th defi con sho	ccordance with the meth pling and gravimetric an SHH definition of a subst when present at a conc our TWA of inhalable dus means that any dust wi we these levels. Some du ure to these must comply cain particles of a wide ra ny particular particle after y response that it elicits, distinguishes two size f and 'respirable'., Inhalab erial that enters the nose lable for deposition in th the fraction that penetrate nitions and explanatory r cain components that hav uld be complied with., W	ods described in MDHS1 alysis of respirable and in ance hazardous to health entration in air equal to o st or 4 mg.m-3 8-hour TW II be subject to COSHH if usts have been assigned y with the appropriate lim ange of sizes. The behaviour entry into the human re depend on the nature an fractions for limit-setting p and mouth during breat e respiratory tract. Respin s to the gas exchange re naterial are given in MDH- ve their own assigned WI	h includes dust of any or greater than 10 mg.m-3 /A of respirable dust. f people are exposed specific WELs and ex- it., Most industrial dusts iour, deposition and fate espiratory system and the of size of the particle. Durposes termed 'inhala- the fraction of airborne hing and is therefore rable dust approximates egion of the lung. Fuller HS14/3., Where dusts EL, all the relevant limits or exposure limit is listed,
		TWA (Respir dust)		GB EH40
Furth	frac in a sam COS kinc 8-hc This abo pos con of a bod HSE ble' mat ava to th defi con sho	tions of airborne dust wh ccordance with the meth pling and gravimetric an SHH definition of a subst when present at a conc our TWA of inhalable dus means that any dust wi ve these levels. Some du ure to these must comple- ain particles of a wide ra ny particular particle after y response that it elicits, distinguishes two size f and 'respirable'., Inhalab erial that enters the nose lable for deposition in the fraction that penetrate nitions and explanatory r ain components that hav uld be complied with., W	ods described in MDHS1 alysis of respirable and in ance hazardous to health entration in air equal to o st or 4 mg.m-3 8-hour TW II be subject to COSHH if usts have been assigned y with the appropriate lim ange of sizes. The behaviour entry into the human re depend on the nature an iractions for limit-setting p le dust approximates to the e and mouth during breat e respiratory tract. Respin s to the gas exchange re naterial are given in MDH- ve their own assigned WI	n sampling is undertaken 4/3 General methods for nhalable dust, The n includes dust of any or greater than 10 mg.m-3 /A of respirable dust. f people are exposed specific WELs and ex- it., Most industrial dusts iour, deposition and fate espiratory system and the d size of the particle. Durposes termed 'inhala- the fraction of airborne hing and is therefore rable dust approximates egion of the lung. Fuller HS14/3., Where dusts EL, all the relevant limits m exposure limit is listed,

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Calcium carbonate	Workers	Inhalation	Long-term systemic effects	10 mg/m3

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		Consumers	Inhalation	Long-term systemic effects	10 mg/m3
		Consumers	Ingestion	Long-term systemic effects	6.1 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	6.1 mg/kg bw/day
	Zinc oxide	Workers	Skin cont	act Long-term systemic effects	83 mg/kg bw/day
		Workers	Inhalation	Long-term systemic effects	5 mg/m3
		Consumers	Skin cont	act Long-term systemic effects	83 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
		Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Calcium carbonate	Sewage treatment plant	100 mg/l
Zinc oxide	Fresh water	20.6 µg/l
	Marine water	6.1 µg/l
	Sewage treatment plant	52 µg/l
	Fresh water sediment	117.8 mg/kg
	Marine sediment	56.5 mg/kg
	Soil	35.6 mg/kg
Aluminum hydroxide benzoate stearate	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Intermittent use/release	1 mg/l

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection	: Wear the following personal protective equipment: Safety glasses

Hand protection

Remarks

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Skin and body protection		: Skin should be washed after contact.		
Respiratory protection		tilation is provid	/ protection unless adequate local exhaust ven- ded or exposure assessment demonstrates that within recommended exposure guidelines.	
Filter type		: Combined part	iculates and organic vapour type (A-P)	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Grease
Colour	:	white
Odour	:	slight
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	Not applicable
Flash point	:	215 °C Method: closed cup
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	No data available
Relative density	:	0.89
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available

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Deco	mposition temperature	: No data availa	able
Visco Vis	osity scosity, dynamic	: Not applicable	9
Explo	osive properties	: Not explosive	
Oxidi	zing properties	: The substance	e or mixture is not classified as oxidizing.
	information cular weight	: No data availa	able
SECTIO	N 10: Stability and re	activity	
10.1 Read Not c	c tivity classified as a reactivity l	nazard.	
	nical stability e under normal condition	ns.	
10.3 Poss	sibility of hazardous re	actions	
Haza	rdous reactions	: Can react with	n strong oxidizing agents.
	ditions to avoid litions to avoid	: None known.	
10.5 Inco	mpatible materials		
	rials to avoid	: Oxidizing age	nts
	ardous decomposition azardous decomposition	•	٦.
SECTION	N 11: Toxicological i	nformation	
	mation on toxicologica mation on likely routes o sure		
	e toxicity	able information	
	lassified based on availa	able information.	
	<u>ponents:</u> e mineral oil (petroleur	n):	

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		Test atmosphere Assessment: The tion toxicity	e: dust/mist e substance or mixture has no acute inhala-		
Acute dermal toxicity		 LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity 			
Zinc oxide: Acute oral toxicity		: LD50 (Rat): > 5, Method: OECD	000 mg/kg Test Guideline 401		
Acute inhalation toxicity		 LC50 (Rat): > 5.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala tion toxicity 			

Skin corrosion/irritation

Not classified based on available information.

Components:

White mineral oil (petroleum): Species: Rabbit Result: No skin irritation

Zinc oxide:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

White mineral oil (petroleum): Species: Rabbit Result: No eye irritation

Zinc oxide:

Species: Rabbit Method: OECD Test Guideline 405 Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

White mineral oil (petroleum):

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	Exposi Specie	/pe: Buehler Test ıre routes: Skin contact s: Guinea pig negative	:			
	Zinc oxide: Test Type: Maximisation Test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative					
		c ell mutagenicity ssified based on availa	ble	information.		
	Compo	onents:				
		mineral oil (petroleum exicity in vitro	i): :	Test Type: In vitro Result: negative	mammalian cell gene mutation test	
	Genoto	oxicity in vivo	:	cytogenetic assay Species: Mouse Application Route Method: OECD To Result: negative	: Intraperitoneal injection	
	Zinc ox Genoto	xide: oxicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative	ial reverse mutation assay (AMES) est Guideline 471	
	Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Rat Application Route Method: OECD To Result: negative	: Inhalation	
		ogenicity ssified based on availa	ble	information.		

Components:

White mineral oil (petroleum): Species: Rat Application Route: Ingestion Exposure time: 24 Months Result: negative

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2.4		04.01.2016	88	9189-00007	Date of first issue: 03.12.2014		
	Reproductive toxicity Not classified based on available			information.			
	Components:						
	White r	mineral oil (petroleun	ו):				
	Effects on fertility Effects on foetal develop- ment		:	: Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Skin contact Result: negative			
			:	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative			
	Zinc oxide:						
	Effects on fertility		: Test Type: Two-generation reproduction toxic Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative		: Ingestion		
	Effects ment	on foetal develop-	:	Species: Hamster Application Route Result: negative			
	0707						

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Zinc oxide: Exposure routes: inhalation (dust/mist/fume) Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Repeated dose toxicity

Components:

White mineral oil (petroleum): Species: Rat LOAEL: > 160 mg/kg Application Route: Ingestion Exposure time: 90 Days

Species: Rat LOAEL: >= 1 mg/l Application Route: inhalation (dust/mist/fume)

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Exposure time: 4 Weeks Method: OECD Test Guideline 412

Zinc oxide:

Species: Rat NOAEL: 1.5 mg/m3 Application Route: inhalation (dust/mist/fume) Exposure time: 3 Months Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

Components:

White mineral oil (petroleum):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information

12.1 Toxicity

<u>Components:</u> White mineral oil (petroleum)):
Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	 NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	: NOEC: 1,000 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	: NOEC: 1,000 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
Zinc oxide:	
Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): 330 - 780 μg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other	: EC50 (Daphnia magna (Water flea)): 6.9 - 16.2 mg/l

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aq	aquatic invertebrates Toxicity to algae			Exposure time: 4 Method: OECD T	8 h est Guideline 202
То			:	Exposure time: 7	ım capricornutum (green algae)): 136 μg/l 2 h est Guideline 201
				Exposure time: 7	rum capricornutum (green algae)): 24 μg/l 2 h est Guideline 201
	-Facte ty)	or (Acute aquatic tox-	:	1	
То	Toxicity to bacteria Toxicity to fish (Chronic tox- icity) Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:		h est Guideline 209 on data from similar materials
			:		0 d /nchus mykiss (rainbow trout) on data from similar materials
aq			:		1 d a magna (Water flea) on data from similar materials
	-Facto xicity)	or (Chronic aquatic)	:	1	
12.2 Pe	ersist	tence and degradabil	lity		
W	hite ı	onents: mineral oil (petroleun radability	•	Result: Not readi Biodegradation: Exposure time: 2	31 %
12.3 Bi	ioaco	cumulative potential			
Zi	nc o>	onents: kide: umulation	:	Species: Fish Bioconcentration	factor (BCF): 177
		r y in soil a available			

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	ilts of PBT and vPvB elevant	assessment					
12.6 Othe	r adverse effects						
No da	ata available						
SECTION	N 13: Disposal con	siderations					
13.1 Wast	te treatment methods	6					
Product Contaminated packaging		According to are not proc Waste code	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 				
		dling site for					
SECTION	N 14: Transport info	ormation					
14.1 UN n	umber						
ADN		: UN 3077					
ADR		: UN 3077					
RID		: UN 3077					
IMDG			: UN 3077				
INDC	5	: UN 3077					
IATA		: UN 3077 : UN 3077					
ΙΑΤΑ		: UN 3077					
ΙΑΤΑ		: UN 3077	IENTALLY HAZARDOUS SUBSTANCE, SOLID,				
IATA 14.2 UN p		: UN 3077 : ENVIRONM N.O.S. (Zinc oxide)	IENTALLY HAZARDOUS SUBSTANCE, SOLID,				
IATA 14.2 UN p ADN		: UN 3077 : ENVIRONM N.O.S. (Zinc oxide) : ENVIRONM N.O.S. (Zinc oxide)	IENTALLY HAZARDOUS SUBSTANCE, SOLID, IENTALLY HAZARDOUS SUBSTANCE, SOLID,				
IATA 14.2 UN p ADN ADR	oroper shipping name	: UN 3077 : ENVIRONN N.O.S. (Zinc oxide) : ENVIRONN N.O.S. (Zinc oxide) : ENVIRONN N.O.S. (Zinc oxide)	IENTALLY HAZARDOUS SUBSTANCE, SOLID, IENTALLY HAZARDOUS SUBSTANCE, SOLID, IENTALLY HAZARDOUS SUBSTANCE, SOLID,				

14.3 Transport hazard class(es)

ADN	: 9
ADR	: 9

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	RID IMDG		:	9 9	
	ΙΑΤΑ		:	9	
14.4	Packin	ig group			
	Classifi Hazard Labels	g group ication Code I Identification Number	:	III M7 90 9	
	Classifi Hazard Labels	g group ication Code I Identification Number restriction code	:	III M7 90 9 (E)	
	Classifi	g group ication Code I Identification Number	:	III M7 90 9	
	IMDG Packing Labels EmS C	g group ode	:	III 9 F-A, S-F	
	aircraft Packing	g instruction (cargo	:	956 Y956 III Miscellaneous	
	Packing ger airc Packing	Passenger) g instruction (passen- raft) g instruction (LQ) g group	:	956 Y956 III Miscellaneous	
14.5	5 Enviro	nmental hazards			
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	nmentally hazardous	:	yes	
	RID Enviror	nmentally hazardous	:	yes	

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IMDG

Marine pollutant	:	yes
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14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EC) No 850/2004 on persistent organic pol- lutants	: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

2	Ű	5	Quantity 1	Quantity 2
E2		ENVIRONMENTAL HAZARDS	200 t	500 t
34		Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (includ- ing diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alterna- tive fuels serving the same purposes and with similar properties as regards flammability and environ- mental hazards as the products referred to in points (a) to (d)	2,500 t	25,000 t

The components of this product are reported in the following inventories:

: All ingredients (pre-)registered or exempt.

Version 2.4	Revision Date: 04.01.2016		9189-00007	Date of last issue: 14.10.2015 Date of first issue: 03.12.2014	
TSCA		:		tances in this material are included on or ting on the TSCA Inventory of Chemical	
AICS		:	All ingredients list	ed or exempt.	
IECSC		:	: All ingredients listed or exempt.		
ENCS/	ISHL	:	All components a inventory listing.	re listed on ENCS/ISHL or exempted from	
KECI		:	One or more ingre	edients are not listed or exempt.	
DSL		:	1999 and NSNR a	tances in this product comply with the CEPA and are on or exempt from listing on the Ca- Substances List (DSL).	
TCSI		:	All ingredients list	ed or exempt.	

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

GB EH40 / TWA

Full text of H-Statemer	nts
H304	: May be fatal if swallowed and enters airways.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
Full text of other abbre	eviations
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Asp. Tox.	: Aspiration hazard
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): ErCx -Concentration associated with x% growth rate response: GHS - Globally Harmonized System: GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisa-

: Long-term exposure limit (8-hour TWA reference period)

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2015
2.4	04.01.2016	889189-00007	Date of first issue: 03.12.2014

tion for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN

Safety Data Sheet



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Multifak EP 00

Product Use: Grease Product Number(s): 274509 Company Identification Chevron Products Company a division of Chevron U.S.A. Inc. 6001 Bollinger Canyon Rd. San Ramon, CA 94583 United States of America www.chevronlubricants.com

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887 Health Emergency Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623 Product Information email : lubemsds@chevron.com Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION: Not classified as hazardous according to 29 CFR 1910.1200 (2012).

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	60 - 99 %weight

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

DELAYED OR OTHER HEALTH EFFECTS: Not classified

Indication of any immediate medical attention and special treatment needed

Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. **Unusual Fire Hazards:** Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Phosphorus, Sulfur, Zinc, Lithium.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Clean up spills immediately, observing precautions in Exposure Controls/Personal Protection section. Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Keep out of the reach of children. **Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. **Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Neoprene, Nitrile Rubber, Silver Shield, Viton. **Respiratory Protection:** No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH	5 mg/m3	10 mg/m3		
Highly refined mineral oil (C15 - C50)	OSHA Z-1	5 mg/m3			

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Light to Brown **Physical State:** Semi-solid Odor: Petroleum odor **Odor Threshold:** No data available pH: Not Applicable **Vapor Pressure:** <0.01 mmHg (Estimated) @ 37.8 °C (100 °F) Vapor Density (Air = 1): >1 (Estimated) **Initial Boiling Point:** 260°C (500°F) Solubility: Soluble in hydrocarbons; insoluble in water **Freezing Point:** No data available **Melting Point:** 155°C (311°F) (Min) **Specific Gravity:** 0.90 (Typical) **Density:** No data available Viscosity: 112 mm2/s @ 40°C (104°F) (Typical) **Evaporation Rate:** Not Applicable **Decomposition temperature:** No data available **Octanol/Water Partition Coefficient:** No data available

FLAMMABLE PROPERTIES: Flammability (solid, gas): No Data Available

Flashpoint:150 °C (302 °F) (Typical)Autoignition:No data availableFlammability (Explosive) Limits (% by volume in air):Lower:Not ApplicableNot Applicable

SECTION 10 STABILITY AND REACTIVITY

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. **Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: Not applicable Hazardous Decomposition Products: Hydrogen Sulfide (Elevated temperatures), Alkyl Mercaptans (Elevated temperatures)

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Serious Eye Damage/Irritation: The eye irritation hazard is based on evaluation of data for similar materials.

Skin Corrosion/Irritation: The skin irritation hazard is based on evaluation of data for similar materials.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for similar materials.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for product components.

Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

Carcinogenicity: The hazard evaluation is based on data for components or a similar material.

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Single Exposure: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Repeated Exposure: The hazard evaluation is based on data for components or a similar material.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

MOBILITY

No data available.

PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available. Octanol/Water Partition Coefficient: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with

applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES: Not applicable

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
c	07=PA RTK

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), IECSC (China), KECI (Korea), TSCA (United States).

One or more components is listed on ELINCS (European Union). All other components are listed or exempted from listing on EINECS.

One or more components does not comply with the following chemical inventory requirements: ENCS (Japan), PICCS (Philippines).

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Grease)

SECTION 16 OTHER INFORMATION

NFPA RATINGS:	Health:	2	Flammability:
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Reactivity: 0

1

HMIS RATINGS: Health: 0 Flammability: 1 Reactivity: 0 (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: SECTION 09 - Physical/Chemical Properties information was modified. SECTION 15 - SARA 311 EPCRA Score information was added. SECTION 15 - SARA 311 Score information was deleted.

Revision Date: February 06, 2019

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Tim	e Weighted Average
STEL - Short-term Exposure Limit	PEL - Perr	nissible Exposure Limit
GHS - Globally Harmonized System	CAS - Cher	nical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG -	International Maritime Dangerous
Industrial Hygienists	Goods Code	
API - American Petroleum Institute	SDS - Safet	y Data Sheet
HMIS - Hazardous Materials Information System	NFPA - Nat	tional Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - Natio	onal Toxicology Program (USA)
IARC - International Agency for Research on	OSHA -	Occupational Safety and Health
Cancer	Administration	
NCEL - New Chemical Exposure Limit	EPA - Environme	ntal Protection Agency
SCBA - Self-Contained Breathing Apparatus		

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



Penta International Corporation

50 Okner Parkway Livingston, NJ 07039-1604 | Tel: (973)740-2300 | Fax: (973)740-1839 www.pentamfg.com | E-mail: sales@pentamfg.com

SAFETY DATA SHEET

Revision Date: 11/01/2020 Print Date: 8/27/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	ORANGE TERPENES
Product Number	15-67000
Brand	Penta
Identified Uses	Manufacture of substances
Company	Penta International Corporation 50 Okner Parkway Livingston NJ 07039-1604 U.S.A.
Telephone	(973)740-2300
Fax	(973)740-1839
Emergency Phone	(800)424-9300 24-Hrs

2. HAZARD(S) IDENTIFICATION

Emergency Overview

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3) Skin irritation (Category 2) Skin sensitisation (Category 1) Aspiration hazard (Category 1) Acute aquatic toxicity (Category 2) Chronic aquatic toxicity (Category 2)

GHS Label elements, including precautionary statements



Pictogram:

Signal word Hazard statement(s) H226 Danger

Flammable liquid and vapour.

H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H411	Toxic to aquatic life with long lasting effects.		
Precautionary statement(s)			
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.		
P233	Keep container tightly closed.		
P240	Ground/bond container and receiving equipment.		
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.		
P242	Use only non-sparking tools.		
P243	Take precautionary measures against static discharge.		
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.		
P264	Wash skin thoroughly after handling.		
P272	Contaminated work clothing should not be allowed out of the		
D070	workplace.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/ eye protection/ face protection.		
P301 P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.		
P303 P361 P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.		
P331	Do NOT induce vomiting.		
P333 P313	If skin irritation or rash occurs: Get medical advice/ attention.		
P362	Take off contaminated clothing and wash before reuse.		
P370 P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.		
P391	Collect spillage.		
P403 P235	Store in a well-ventilated place. Keep cool.		
P405	Store locked up.		
P501	Dispose of contents/ container to an approved waste disposal plant.		
HMIS Classification			
Health hazard	0		
Flammability	0		
Physical hazards	0		
NFPA Rating			
Health hazard	0		
Fire	0		
Reactivity Hazard	0		
Potential Health Effects			
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.		
Skin	May be harmful if absorbed through skin. May cause skin irritation		
Eyes	May cause eye irritation.		
Ingestion	May be harmful if swallowed		

3. COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYMFormulaC H OMolecular Weightg/molCAS-NoEC-NoIndex-No.

Concentration

8028-48-6 232-433-8

4. FIRST-AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Nature of decomposition products not known. Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Further information Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all

sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment

must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in

container for disposal according to local regulations (see section 13).

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Flammable liquids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of

workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose

combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	LIQUID
Colour	COLORLESS TO PALE YELLOW

Safety data

Salety uata	
pH	no data available
Melting point (°C)	no data available
Boiling point (°C)	176
Flash point (°F) Closed cup	112
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure (mm Hg @20 °C)	no data available
Density @25 °C	0.838
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odor	REMENISCENT OF ORANGE OIL
Odour Threshold	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Reactivity

No data available **Chemical stability** Stable under recommended storage conditions. **Possibility of hazardous reactions** No data available **Conditions to avoid** Heat, flames and sparks. **Incompatible materials** Strong oxidizing agents **Hazardous decomposition products** Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity LD50 Oral - Rat - male - > 5,000 mg/kgInhalation: No data available LD50 Dermal - Rabbit - female - > 5,000 mg/kg No data available Skin corrosion/irritation Skin - Rabbit Result: Irritating to skin. (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) **Respiratory or skin sensitisation** No data available Germ cell mutagenicity Mouse mouse lymphoma cells Result: negative Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as probable. possible or IARC: confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential ACGIH: carcinogen by ACGIH. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated NTP: carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential OSHA: carcinogen by OSHA. **Reproductive toxicity**

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System) no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Additional Information

RTECS: RI8600000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity
No data available
Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this

material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2319 Class: 3 Packing group: III Proper shipping name: Terpene hydrocarbons, n.o.s. Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No **IMDG** UN number: 2319 Class: 3 Packing group: III EMS-No: F-E, S-D Proper shipping name: TERPENE HYDROCARBONS, N.O.S. Marine pollutant: No **IATA** UN number: 2319 Class: 3 Packing group: III Proper shipping name: Terpene hydrocarbons, n.o.s.

15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Fire Hazard, Acute Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Orange terpenes CAS-No. 8028-48-6 **Revision** Date New Jersey Right To Know Components Orange terpenes CAS-No. 8028-48-6 **Revision** Date California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER CATEGORIES

Safety Data Sheet prepared by: Penta

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Penta's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

Revision Date: 11/01/2020

Print Date: 8/27/2021

SAFETY DATA SHEET

K05874

Section 1. Identification

Product name	: KRYLON® PRO PROFESSIONAL Red Oxide Primer
Product code	: K05874
Other means of identification	: Not available.
Product type	: Aerosol.
Relevant identified uses of t	he substance or mixture and uses advised against
Paint or paint related material.	
Manufacturer	: Krylon Products Group 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: US / Canada: (216) 566-2917 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year
Product Information Telephone Number	: US / Canada: (800) 457-9566 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (216) 566-2917 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).			
Classification of the substance or mixture	 FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 			
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 16.1% (oral), 17.2% (dermal), 26.9% (inhalation)			
GHS label elements				
Hazard pictograms				
Signal word	: Danger			
Date of issue/Date of revision	• 0/18/2021 Data of provious issue • 1/12/2021 Varsion • 16 1/20			

 Date of issue/Date of revision
 : 9/18/2021
 Date of previous issue
 : 4/13/2021

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Section 2. Hazards identification

Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (lungs)
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of	:	Not available.
identification		

CAS number/other identifiers

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Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Acetone	≥25 - ≤50	67-64-1
Propane	≥10 - ≤25	74-98-6
Ethylbenzene	≤10	100-41-4
Dimethyl Carbonate	≤10	616-38-6
Butane	≤10	106-97-8
Talc	≤10	14807-96-6
Iron Oxide	≤3	1309-37-1
2-Methyl-1-propanol	<3	78-83-1
Lt. Aliphatic Hydrocarbon Solvent	≤3	64742-89-8
Light Aliphatic Hydrocarbon Solvent	≤3	64742-49-0
Light Aliphatic Hydrocarbon Solvent	≤2.8	68410-97-9
Xylene, mixed isomers	<1	1330-20-7
Octane	≤0.3	111-65-9
Heptane	≤0.3	142-82-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necess	sary first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health	<u>effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: No known significant effects or critical hazards.

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Section 4. First aid measures

Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
ndication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask self-contained breathing apparatus. It may be dangerous to the person providing aid give mouth to mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

give mouth-to-mouth resuscitation.

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and	materials	for contain	ment and	cleaning up	

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling		
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Acetone	67-64-1	ACGIH TLV (United States, 1/2021). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. NIOSH REL (United States, 10/2020). TWA: 250 ppm 10 hours. TWA: 590 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 1000 ppm 8 hours. TWA: 2400 mg/m ³ 8 hours.
Propane	74-98-6	 NIOSH REL (United States, 10/2020). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. ACGIH TLV (United States, 1/2021). Oxygen Depletion [Asphyxiant]. Explosive potential
Ethylbenzene	100-41-4	ACGIH TLV (United States, 1/2021). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 435 mg/m ³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours.
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Dimethyl Carbonate Butane	616-38-6 106-97-8	None. NIOSH REL (United States, 10/2020). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. ACGIH TLV (United States, 1/2021). Explosive potential. STEL: 1000 ppm 15 minutes.
-alc	14807-96-6	 NIOSH REL (United States, 10/2020). TWA: 2 mg/m³ 10 hours. Form: Respirable fraction ACGIH TLV (United States, 1/2021). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
ron Oxide	1309-37-1	 NIOSH REL (United States, 10/2020). TWA: 5 mg/m³, (as Fe) 10 hours. Form: Dust and fumes OSHA PEL (United States, 5/2018). TWA: 10 mg/m³ 8 hours. Form: Fume TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2021). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
2-Methyl-1-propanol	78-83-1	ACGIH TLV (United States, 1/2021). TWA: 50 ppm 8 hours. TWA: 152 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 50 ppm 10 hours. TWA: 150 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 300 mg/m ³ 8 hours.
Lt. Aliphatic Hydrocarbon Solvent Light Aliphatic Hydrocarbon Solvent Light Aliphatic Hydrocarbon Solvent Xylene, mixed isomers	64742-89-8 64742-49-0 68410-97-9 1330-20-7	None. None. None. ACGIH TLV (United States, 1/2021). TWA: 100 ppm 8 hours. TWA: 434 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours.
Octane	111-65-9	NIOSH REL (United States, 10/2020). TWA: 75 ppm 10 hours. TWA: 350 mg/m ³ 10 hours. CEIL: 385 ppm 15 minutes. CEIL: 1800 mg/m ³ 15 minutes. ACGIH TLV (United States, 1/2021). TWA: 300 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 500 ppm 8 hours. TWA: 2350 mg/m ³ 8 hours.
Heptane	142-82-5	ACGIH TLV (United States, 1/2021). TWA: 400 ppm 8 hours. TWA: 1640 mg/m ³ 8 hours.

STEL: 500 ppm 15 minutes.
STEL: 2050 mg/m ³ 15 minutes.
NIOSH REL (United States, 10/2020).
TWA: 85 ppm 10 hours.
TWA: 350 mg/m ³ 10 hours.
CEIL: 440 ppm 15 minutes.
CEIL: 1800 mg/m ³ 15 minutes.
OSHA PEL (United States, 5/2018).
TWA: 500 ppm 8 hours.
TWA: 2000 mg/m ³ 8 hours.
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Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
acetone	67-64-1	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1200 mg/m³ 8 hours. 15 min OEL: 1800 mg/m³ 15 minutes. 8 hrs OEL: 500 ppm 8 hours. 15 min OEL: 750 ppm 15 minutes. CA British Columbia Provincial (Canada, 1/2021). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2019). TWAEV: 500 ppm 8 hours. STEV: 1000 ppm 15 minutes. STEV: 1000 ppm 15 minutes. STEV: 2380 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours.
Normal propane	74-98-6	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2021). Oxygen Depletion [Asphyxiant]. Explosive potential.
		CA Ontario Provincial (Canada, 6/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
Ethylbenzene	100-41-4	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 100 ppm 8 hours. 8 hrs OEL: 434 mg/m ³ 8 hours. 15 min OEL: 543 mg/m ³ 15 minutes. 15 min OEL: 125 ppm 15 minutes. CA British Columbia Provincial (Canada,

ection 8. Exposure cor		
		 1/2021). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 125 ppm 15 minutes. STEV: 543 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
Butane	106-97-8	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 1/2021). Explosive potential. STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). Explosive potential. STEL: 1000 ppm 15 minutes.
talc (none asbestiform)	14807-96-6	 CA British Columbia Provincial (Canada, 1/2021). TWA: 2 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 7/2019). TWAEV: 3 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter. TWA: 2 f/cc 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 2 mg/m³ 8 hours. Form: respirable fraction
Isobutyl alcohol	78-83-1	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 152 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 1/2021). TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 50 ppm 8 hours. TWAEV: 152 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 1/2010).

		7/2013).
		STEL: 60 ppm 15 minutes.
		TWA: 50 ppm 8 hours.
Xylene	1330-20-7	CA Alberta Provincial (Canada, 6/2018).
		8 hrs OEL: 100 ppm 8 hours.
		15 min OEL: 651 mg/m ³ 15 minutes.
		15 min OEL: 150 ppm 15 minutes.
		8 hrs OEL: 434 mg/m ³ 8 hours.
		CA British Columbia Provincial (Canada,
		1/2021).
		TWA: 100 ppm 8 hours.
		STEL: 150 ppm 15 minutes.
		CA Quebec Provincial (Canada, 7/2019).
		TWAEV: 100 ppm 8 hours.
		TWAEV: 434 mg/m ³ 8 hours.
		STEV: 150 ppm 15 minutes.
		STEV: 651 mg/m ³ 15 minutes.
		CA Ontario Provincial (Canada, 6/2019).
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
		CA Saskatchewan Provincial (Canada,
		7/2013).
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits	
Acetone	67-64-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes.	
Propane	74-98-6	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.	
Ethylbenzene	100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.	
Butane	106-97-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.	
2-methylpropan-1-ol	78-83-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.	

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>s</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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-	· · ·
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Not available.		
Odor	: Not available.		
Odor threshold	: Not available.		
рН	: 7		
Melting point/freezing point	: Not available.		
Boiling point, initial boiling point, and boiling range	: Not available.		
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]		
Evaporation rate	: 5.6 (butyl acetate = 1)		
Flammability	: Not available.		
Lower and upper explosion limit/flammability limit	: Lower: 0.9% Upper: 12.8%		
Vapor pressure	: 101.3 kPa (760 mm Hg)		
Relative vapor density	: 1.55 [Air = 1]		
Relative density	: 0.82		
Solubility	: Not available.		
Partition coefficient: n- octanol/water	: Not applicable.		
Auto-ignition temperature	: Not available.		
Decomposition temperature	: Not available.		
Viscosity	: Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt)		
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Section 9. Physical and chemical properties

Molecular weight	: Not applicable.
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 27.94 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
, , , , , , , , , , , , , , , , , , ,	LD50 Oral	Rat	3500 mg/kg	-
Dimethyl Carbonate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
2-Methyl-1-propanol	LC50 Inhalation Vapor	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Light Aliphatic Hydrocarbon Solvent	LD50 Oral	Rat	5.17 g/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Octane	LC50 Inhalation Gas.	Rat	25260 ppm	4 hours
	LC50 Inhalation Vapor	Rat	118 g/m ³	4 hours
Heptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m³	4 hours

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Talc	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Ethylbenzene	-	2B	-
Talc	-	3	-
Iron Oxide	-	3	-
Xylene, mixed isomers	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Propane	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Butane	Category 3	-	Respiratory tract
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			irritation
	Category 3		Narcotic effects
2-Methyl-1-propanol	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract
			irritation
Octane	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Heptane	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 2	-	-
Propane	Category 2	-	-
Ethylbenzene	Category 2	-	-
Butane	Category 2	-	-
Talc	Category 1	inhalation	lungs
2-Methyl-1-propanol	Category 2	-	-
Lt. Aliphatic Hydrocarbon Solvent	Category 2	-	-
Light Aliphatic Hydrocarbon Solvent	Category 2	-	-
Light Aliphatic Hydrocarbon Solvent	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-
Octane	Category 2	-	-
Heptane	Category 2	-	-

Aspiration hazard

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Octane	ASPIRATION HAZARD - Category 1
Heptane	ASPIRATION HAZARD - Category 1

Information on the likely : Not available.

routes of exposure

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation	Can cause central nervous system (CNS) depression. May cause dr	owsiness or
	dizziness. May cause respiratory irritation.	

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Skin contact	: No known significant effects or critical hazards.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Symptoms related to the p	physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects Long term exposure	: Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
Not available.	
General	: Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates

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Route	ATE value
Oral	26649.21 mg/kg
Dermal	186654.89 mg/kg
Inhalation (vapors)	82.57 mg/l

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours 🥄
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 7460000 μg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
,	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
2-Methyl-1-propanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Heptane	Acute LC50 375000 µg/l Fresh water		96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetone	-	-	Readily
Ethylbenzene	-	-	Readily
2-Methyl-1-propanol	-	-	Readily
Xylene, mixed isomers	-	-	Readily

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Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Xylene, mixed isomers	-	8.1 to 25.9	low
Octane	-	198.7	low
Heptane	-	552	high

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Date of issue/Date of rev K05874 KRYI	vision : 9/18/20 LON® PRO PROFESSIONA		issue : 4/13/202		ion : 16 17/20 /-85-NA-GHS-US

Section 14.	Transport info	ormation			
Additional information	- ERG No.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). ERG No.	- ERG No.	-	Emergency schedules F-D, S U
	126	126	126		
	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship unde the Limited Quantity shipping exception.
Special precaution	conside mode o suitably prior to respons unloadi	odal shipping descrip odal shipping descrip of container sizes. Th f transport (sea, air, of for that mode of tran shipment, and comp sibility of the person of ng dangerous goods aces and on all action	e presence of a ship etc.), does not indica isport. All packaging liance with the appli offering the product to must be trained on	pping description for ate that the product is must be reviewed for cable regulations is to for transport. People all of the risks deriving	a particular s packaged or suitability he sole loading and
Fransport in bulk action of IMO instruments	ccording : Not avail	able.			
	Proper s	hipping name	: Not available.		

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

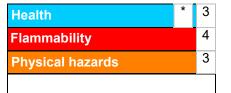
International regulations

International lists	: Australia inventory (AIIC): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (CSCL): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan Chemical Substances Inventory (TCSI): Not determined.
	Thailand inventory: Not determined.
	Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

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Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data 🥄 🥄
GASES UNDER PRESSURE - Compressed gas	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPEČIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1	Calculation method Calculation method

History

<u>Instory</u>	
Date of printing	: 9/18/2021
Date of issue/Date of revision	: 9/18/2021
Date of previous issue	: 4/13/2021
Version	: 16
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buver/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom2012 Date of issue: 9/24/2019 Revision date: 9/24/2019 Version: 1.0

Product code:1.2.Relevant identified uses of the substance/mixtureUse of the substance/mixture:1.3.Details of the supplier of the safety datManufacturerThe Blaster Corporation 8500 Sweet Valley Drive Valley View, Ohio 44125 - USA T (216) 901-5800 - F (216) 901-5801 www.blastercorp.com1.4.Emergency telephone number Emergency numberEmergency number:SECTION 2: Hazard(s) identification2.1.Classification of the substance or mixt GHS-US classificationFlam. Aerosol 2 Gases under Pressure (Dissolved gas) Asp. Tox. 12.2.Label elementsGHS-US labelling Hazard pictograms (GHS-US):	: ChemTel 800-255-3924
1.1. Identification Product name : Product code : 1.2. Relevant identified uses of the substar Use of the substance/mixture : 1.3. Details of the supplier of the safety dat Manufacturer The Blaster Corporation 8500 Sweet Valley Drive Valley View, Ohio 44125 - USA T (216) 901-5800 - F (216) 901-5801 www.blastercorp.com 1.4. Emergency telephone number Emergency number : SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixt GHS-US classification Flam. Aerosol 2 Gases under Pressure (Dissolved gas) Asp. Tox. 1 2.2. Label elements GHS-US labelling Hazard pictograms (GHS-US) :	: 16-PB, 8-PB, 8-PBS, PB-TS, 20-PB, 26-PB, 16-PB-DS nce or mixture and uses advised against Penetrant tasheet : ChemTel 800-255-3924
Product name:Product code:1.2.Relevant identified uses of the substance/mixtureUse of the substance/mixture:1.3.Details of the supplier of the safety datManufacturerThe Blaster CorporationThe Blaster Corporation8500 Sweet Valley DriveValley View, Ohio 44125 - USA:T (216) 901-5800 - F (216) 901-5801:www.blastercorp.com:1.4.Emergency telephone numberEmergency number:SECTION 2: Hazard(s) identification2.1.Classification of the substance or mixtGHS-US classificationFlam. Aerosol 2Gases under Pressure (Dissolved gas)Asp. Tox. 12.2.Label elementsGHS-US labellingHazard pictograms (GHS-US)Signal word (GHS-US)	: 16-PB, 8-PB, 8-PBS, PB-TS, 20-PB, 26-PB, 16-PB-DS nce or mixture and uses advised against Penetrant tasheet : ChemTel 800-255-3924
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Manufacturer The Blaster Corporation 8500 Sweet Valley Drive Valley View, Ohio 44125 - USA T (216) 901-5800 - F (216) 901-5801 www.blastercorp.com 1.4. Emergency telephone number Emergency number : SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixt GHS-US classification Flam. Aerosol 2 Gases under Pressure (Dissolved gas) Asp. Tox. 1 2.2. Label elements GHS-US labelling Hazard pictograms (GHS-US) Signal word (GHS-US)	: ChemTel 800-255-3924
The Blaster Corporation 8500 Sweet Valley Drive Valley View, Ohio 44125 - USA T (216) 901-5800 - F (216) 901-5801 www.blastercorp.com 1.4. Emergency telephone number Emergency number : SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixt GHS-US classification Flam. Aerosol 2 Gases under Pressure (Dissolved gas) Asp. Tox. 1 2.2. Label elements GHS-US labelling Hazard pictograms (GHS-US) :	
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GHS-US labelling Hazard pictograms (GHS-US) :	
Hazard pictograms (GHS-US) :	
Hazard pictograms (GHS-US) :	
	GHS02 GHS04 GHS08
Hazard statements (GHS-US) :	Danger
	Flammable aerosol. Contains gas under pressure; may explode if heated. May be fatalif swallowed and enters airways.
Precautionary statements (GHS-US) :	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on anopen flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store locked up. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local, regional, national and/or international regulation.
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/information	on ingredients
-	
3.1. Substances	
Not applicable	



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3.2. **Mixtures**

Name	Product identifier	%
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	50 - 60
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	20 - 30
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS No) 64742-52-5	20 - 30
Carbon dioxide	(CAS No) 124-38-9	1 - 4

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	 Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Direct contact with the eyes is likely to be irritating.
First-aid measures after ingestion	: IF SWALLOWED: immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory tractirritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measu	ires
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide, dry chemical, halons or foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon and oxides of nitrogen.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity	: No dangerous reaction known under conditions of normal use.
5.3. Advice for firefighters	
Firefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.
SECTION 6: Accidental release	measures
6.1 Personal precautions protect	tive equinment and emergency procedures

6.1.	Personal precautions, protective equip	oment and emergency procedures
General	neasures :	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.
6.1.1.	For non-emergency personnel	
Emerger	cy procedures	Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	e equipment	Equip cleanup crew with proper protection.



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Emergency procedures	: Ventilate area.
6.2. Environmental preca	utions
Prevent entry to sewers and publ	ic waters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material	for containment and cleaning up
For containment	: Eliminate sources of ignition. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation.

6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not spray on an open flame or other ignition source. Keep away from sources of ignition - No smoking. Use non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas, fumes, vapour or spray. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Do not pierce or burn, even after use.
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
7.2. Conditions for safe storage, includi	ng anyincompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should befollowed.
Storage conditions	: Keep locked up and out of reach of children. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Keep in fireproofplace.
Storage area	: Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

	tes, hydrotreated light (64742-47-8)		
Not applicable			
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)			
Not applicable			
Distillates, petrole	eum, hydrotreated heavy naphthenic (64742-52-5)		
Not applicable			
Carbon dioxide (1	24-38-9)		
ACGIH	ACGIH TWA (ppm)	5000 ppm	
ACGIH	ACGIH STEL (ppm)	30000 ppm	
OSHA	OSHA PEL (TWA) (mg/m ³)	9000 mg/m ³	
	OSHA PEL (TWA) (ppm)	5000 ppm	

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear chemically resistant protectivegloves.
Eye protection	: Safety glasses or goggles are recommended when using product.
Skin and body protection	: Wear suitable protectiveclothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.



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SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Clear. Aerosol.
Colour	: Orange
Odour	: Characteristic
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 356 °F (180 °C)
Flash point	: > 141 °F (> 61 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Flammableaerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.9
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
9.2. Other information	
Heat of Combustion	: 45.8kJ/g
Flame Projection	: 0 inches
Flashback	: None

SECTION 10: Stability and reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. Flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Sources of ignition. Heat. Incompatiblematerials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon and oxides of nitrogen.

SECTION 11: Toxicological information

11.1.	Information	on toxico	logical effe	ects

Acute toxicity

: Not classified.



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PB Penetreating Catalyst		
LD50 oral rat	> 2000 mg/kg (Calculated Acute Toxicity Estimate)	
LD50 dermal rabbit	> 2000 mg/kg (Calculated Acute Toxicity Estimate)	
LC50 inhalation rat	> 5 mg/l/4h (Calculated Acute Toxicity Estimate)	
Petroleum distillates, hydrotreated light (64	1742-47-8)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat	> 5.2 mg/l/4h	
Solvent naphtha, petroleum, heavy aromati	ic (64742-94-5)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2 ml/kg	
LC50 inhalation rat	> 590 mg/m³ (Exposure time: 4 h)	
Skin corrosion/irritation	: Notclassified.	
Serious eye damage/irritation	: Notclassified.	
Respiratory or skin sensitisation	: Notclassified.	
Germ cell mutagenicity	: Notclassified.	
<u> </u>		
Carcinogenicity	: Notclassified.	
Reproductive toxicity	: Not classified.	
Specific target organ toxicity(single exposure)	: Notclassified.	
Specific target organ toxicity (repeated exposure)	: Not classified.	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.	
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.	
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking andtear production, with possible redness and swelling.	
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.	
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.	

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: May cause long-term adverse effects in the aquaticenvironment.	
Petroleum distillates, hydrotreated light (647	42-47-8)	
LC50 fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
LC50 fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)		
LC50 fish 1	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)		
LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	

> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2.	Persistence and degradability
	atreating Catalyst

PB Penetreating Catalyst		
	Persistence and degradability	Not established.

EC50 Daphnia 1



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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012				
12.3. Bioaccumulative potential				
PB Penetreating Catalyst				
Bioaccumulative potential Not established.				
Petroleum distillates, hydrotreated light (64742-47-8)				
BCF fish 1 61 - 159				
Solvent naphtha, petroleum, heavy aroma	· · · ·			
BCF fish 1	61 - 159			
Partition coefficient n-octanol/water	2.9 - 6.1			
Carbon dioxide (124-38-9)				
BCF fish 1	(no bioaccumulation)			
12.4. Mobility in soil				
No additional information available				
12.5. Other adverse effects				
Effect on the global warming	: No known effects from this product.			
Other information	: Avoid release to the environment.			
SECTION 13: Disposal consideration 13.1. Waste treatment methods	ons			
Waste disposal recommendations	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.			
Additional information	: Flammable vapours may accumulate in the container.			
SECTION 14: Transportinformation	1			
DOT, IATA & IMO				
UN-No.	: UN1950			
Proper Shipping Name	: AEROSOLS, flammable, limited quantities			
Class	: 2.1			
Hazard labels				
Other information	: No supplementary information available.			
Special transport precautions	: Do not handle until all safety precautions have been read and understood.			
SECTION 15: Regulatory information				
SECTION 15: Regulatory information 15.1. US Federal regulations				

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. International regulations

No additional information available

US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of **15.3**. California to cause cancer, developmental and/or reproductive harm



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Naphthalene (91-20-3)				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
_		Female	Male	
Yes	No	No	No	5.8 μg/day

Carbon dioxide (124-38-9)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Otherinformation

Date of issue		
Revision date		
Other information		

: 9/24/20198

: 9/24/2019

: None.

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Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: PB Penetrating Catalyst (Aerosol)

Product Code: 16-PB, 8-PB, 8-PBS, PBTS, 20-PB, 16-PB-IND

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use:

Lubricant/Penetrant

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address:	The Blaster Corporation 8500 Sweet Valley Drive Valley View, Ohio 44125 – USA
Telephone Number:	T (216) 901-5800 F (216) 901-5801

1.4 EMERGENCY TELEPHONE NUMBER

EmergencyTelephoneNumber:	CHEMTREC: (800) 424-9300
---------------------------	--------------------------

Date of Preparation:

Feb. 3, 2016

Version #: 1.0

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

Hazard class

Flammable Aerosol 2 Gases Under Pressure (Dissolved Gas) Serious Eye Irritation 2A Carcinogenicity 2 Aspiration Hazard 1

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Hazard Pictogram: Image: Pictogram: Image: Pictogram: Signal Word: Danger Hazard Statement: Flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Suspected of causing cancer. May be fatal if swallowed and enters airways. Prevention: Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection.

Conforms to OSHA HazCom 2012 & NOM-018-STPS-2000 Standards



Storage:

SAFETY DATA SHEET

If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eyeirritation persists: Get medical advice/attention. If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Store locked up. **Disposal:**

Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

8 % of the mixture consists of ingredient(s) of unknown acute toxicity.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Mexico Classification:



Blue = Health Red = Flammability White = Special Yellow = Reactivity

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Ingredient	UN #	H / F/ R / *	CAS No	Wt. %
Distillates (petroleum), hydrotreated light	Not available	Not available	64742-47-8	50 - 60
Solvent naphtha (petroleum), heavy aromatic	UN1270	Not available	64742-94-5	20 - 30
Distillates (petroleum), hydrotreated heavy naphthenic	Not available	Not available	64742-52-5	20 - 30
Carbon dioxide	UN1013	1/0/0	124-38-9	1 - 5
Naphthalene	UN1334/ UN2304	2/2/0	91-20-3	2 - 3
Dinonylphenol, ethoxylated, phosphated	Not available	Not available	39464-64-7	0.5 - 1.5

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

* Per NOM-018-STPS-2000



Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
Skin:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothingbefore reuse. Call a physician if irritation develops and persists.
Inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Ingestion:	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
4.2 MOST IMPORTANT SYMPT	OMS AND EFFECTS, BOTH ACUTE AND DELAYED
Eye:	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin:	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Inhalation:	May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.
Ingestion:	May cause respiratory tract irritation.
4.3 INDICATION OF ANY IMME	DIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED
Note to Physicians:	Symptoms may not appear immediately.
Specific Treatments:	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Dry chemical, carbon dioxide or foam.

Unsuitable Extinguishing Media: Water may be ineffective for extinguishing fire.

5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon, hydrocarbons.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. Do not use a solid water stream asit may scatter and spread fire. Containers may explode whenheated.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment:	Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for Cleaning-Up:	Scoop up material and place in a disposal container. Vapors maybe heavier than air and may travel along the ground to a distantignition source and flash back. Provide ventilation.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling:	Keep away from sources of ignition No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/ spray. Do not swallow. When using do not eat, drink or smoke. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Pressurized container: Donot
	pierce or burn, even after use. (See section 8)
General Hygiene Advice:	Launder contaminated clothing before reuse. Wash handsbefore eating, drinking, or smoking.
7.2 CONDITIONS FOR SAFE ST	ORAGE, INCLUDING ANY INCOMPATIBILITIES
Storage:	Keep locked up and out of reach of children. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in dry, cool, well-

ventilated area. (See section 10)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

Occupational Exposure Limits				
Ingredient	OSHA-PEL	ACGIH-TLV		
Distillates (petroleum), hydrotreated light	100 ppm	200 mg/m³		
Solvent naphtha (petroleum), heavy aromatic	Not available.	Not available.		
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m³ (mist)	5 mg/m³ (mist)		
	5000 ppm;			
Carbon dioxide	9000 mg/m ³	5000 ppm		
	10 ppm;			
Naphthalene	50 mg/m ³	10 ppm		
Dinonylphenol, ethoxylated, phosphated	Not available.	Not available.		



8.2 EXPOSURE CONTROLS

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels ofdust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipment:

Eye/Face Protection: Safety glasses with side-shields.

Skin Protection:

Hand Protection: Wear chemically resistant protective gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection:	A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Health and Safety
Measures:Do not eat, smoke or drink where material is handled, processedor
stored. Wash hands carefully before eating or smoking. Handle
according to established industrial hygiene and safety practices.
Ensure that eyewash stations and safety showers are close to the
workstation location.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous / Oily.
Color:	Orange.
Odor:	Heavy aromatic.
Odor Threshold:	Not available.
Physical State:	Gas/pressurized liquid.
pH:	Not available.
Melting Point/Freezing Point:	Not available.
Initial Boiling Point and Boiling Range:	177.8 °C (352 °F)
Flash Point:	65.6 °C (150 °F)
Evaporation Rate:	<1 (n-butyl acetate = 1)
Flammability:	Flammable.
Lower Flammability/Explosive Limit:	Not available.
Upper Flammability/Explosive Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	>1 (Air = 1)
Relative Density/Specific Gravity:	0.91 (Water = 1)
Solubility:	Negligible.



Partition coefficient: n-octanol/water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Oxidizing Properties:	Not available.
Explosive Properties:	Not available.
VOC Content:	< 25%
Flame Projection:	0 cm
Heat of Combustion:	45.8 kJ/g

Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY

Stable under normal storage conditions. Flammable aerosol. Contents under pressure. Containermay explode if heated. Do not puncture. Do not burn.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID

Heat. Incompatible materials. Sources of ignition. Excessive water.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents. Strong reducing agents. Moisture.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, hydrocarbons.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

- **Eye:** Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swellingof the conjunctiva.
- **Skin:** May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- **Ingestion:** May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.
- Inhalation: May cause respiratory tract irritation.



Acute Toxicity:

Ingredient		IDLH	L	C50	LD50	
Distillates (petroleum),			Inha	alation	Oral >5000 mg/kg, rat;	
hydrotreated light	Not available.		>5.2 m	g/L 4h rat	Dermal >2000 mg/kg, rabbit	
Solvent naphtha						
(petroleum), heavy			Inhalation		Oral >5000 mg/kg, rat;	
aromatic	Not	available.	>5.28 m	g/L 4h, rat	Dermal >2000 mg/kg, rabbit	
Distillates (petroleum),						
hydrotreated heavy				alation	Oral >5000 mg/kg, rat;	
naphthenic		available.		g/L 4h, rat	Dermal >5000 mg/kg, rabbit	
Carbon dioxide	400	000 ppm	Not av	/ailable.	Not available.	
					Oral 490 mg/kg, rat;	
					Dermal >2500 mg/kg, rat;	
Naphthalene	2	50 ppm	Not available.		Dermal >20 g/kg, rabbit	
Dinonylphenol,						
ethoxylated, phosphated	Not	available. Not available.		/ailable.	Not available.	
Calculated overall Chemical Acute Toxicity Values						
LC50 (inhalation) LD50 (oral)			LD50 (dermal)			
> 5 mg/L 4h, rat > 2		> 20	00 mg/kg	, rat	> 2000 mg/kg, rabbit	
				Chemical Listed as Carcinogen or		
Ingredient				Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*		
Distillates (petroleum), hydrotreated light			Not listed.			
Solvent naphtha (petroleum), heavy aromatic				Not listed.		
Distillates (petroleum), hydrotreated heavy naphthenic				Not listed.		
Carbon dioxide				Not listed.		
Naphthalene				G-A4, I-2B, N-2, CP65		
Dinonylphenol, ethoxylated, phosphated					Not listed.	

* See Section 15 for more information.

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE



Other Information:

Not available.

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic environment.

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation:

Not available.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal Method:	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.
Other disposal recommendations:	Flammable vapours may accumulate in the container. Do not incinerate empty containers.

Section 14: TRANSPORT INFORMATION

14.1 UN NUMBER

DOT

UN1950

14.2 UN PROPER SHIPPING NAME

DOT

AEROSOLS, flammable, limited quantities

14.3 TRANSPORT HAZARD CLASS (ES)

DOT

2.1

14.4 PACKING GROUP

DOT

Not applicable.

NOM-004-SCT2-1994 UN1950

NOM-004-SCT2-1994

AEROSOLS, flammable, limited quantities

NOM-004-SCT2-1994

2.1

NOM-004-SCT2-1994

Not applicable.



14.5 ENVIRONMENTAL HAZARDS

Not available.

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

14.7 SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood. The Blaster Corporation does not recommend shipping their aerosol products byair.

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

US: SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Mexico: SDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (Ibs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Distillates (petroleum), hydrotreated light	Not listed.	Not listed.	Not listed.	Not listed.
Solvent naphtha (petroleum), heavy aromatic	Not listed.	Not listed.	Not listed.	Not listed.
Distillates (petroleum), hydrotreated heavy				
naphthenic	Not listed.	Not listed.	Not listed.	Not listed.
Carbon dioxide	Not listed.	Not listed.	Not listed.	Not listed.
Naphthalene	Not listed.	Not listed.	100	313
Dinonylphenol, ethoxylated, phosphated	Not listed.	Not listed.	Not listed.	Not listed.

State Regulations

California Proposition 65:

This product contains a chemical known to the State of California to cause cancer.

Global Inventories:

Ingredient	USA TSCA	
Distillates (petroleum), hydrotreated light	Yes.	
Solvent naphtha (petroleum), heavy aromatic	Yes.	
Distillates (petroleum), hydrotreated heavy naphthenic	Yes.	
Carbon dioxide	Yes.	
Naphthalene	Yes.	
Dinonylphenol, ethoxylated, phosphated	Yes.	



	NFPA-National Fire P	rotection Association:			
Health:		2			
Fire:		4			
Reactivity:		0			
HMIS-Hazardous Materials Identification System:					
Health:		2*			
Fire:		4			
Physical Hazard:		0			
Hazard Rating: 0	= minimal, 1 = slight, 2 = moderat	e, 3 = severe, 4 = extreme			
SOURCE AGENCY	CARCINOGEN CLASSIFICATIO	NS:			
CP65 Cal	ifornia Proposition 65				
OSHA (O) Oco	cupational Safety and Health Ad	Iministration.			
A1 - A2 - A3 - A4 -	 American Conference of Governmental Industrial Hygienists. A1 - Confirmed human carcinogen. A2 - Suspected human carcinogen. A3 - Animal carcinogen. A4 - Not classifiable as a human carcinogen. A5 - Not suspected as a human carcinogen. 				
1 - T 2A - hum 2B - hum 3 - T	 ARC (I) International Agency for Research on Cancer. 1 - The agent (mixture) is carcinogenic tohumans. 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity i humans and sufficient evidence of carcinogenicity in experimental animals. 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity i humans in the absence of sufficient evidence of carcinogenicity in experimental animals. 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans. 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans. 				
1 - K	 (N) National Toxicology Program. 1 - Known to be carcinogens. 2 - Reasonably anticipated to be carcinogens. 				
	Section 16: OTHE	ER INFORMATION			
Date of Preparation	on: Feb. 3, 2016				
Version:	1.0				
Devision Deter					

Revision Date: Feb. 3, 2016

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particularuse.

End of Safety Data Sheet



Date of issue: 05/28/2014 Revision date: 05/28/2014 Version: 1.0

OFOTI	ON 4. Identification of the sub	
<u>SECTI</u> 1.1.	Product identifier	stance/mixture and of the company/undertaking
Product		: PENRAY STARTING FLUID
Product		: 5301
1.2.		tance or mixture and uses advised against
	ne substance/mixture	: Starting Fluid.
1.3.	Details of the supplier of the safety of	data sheet
440 Den Wheelin T (800) 3	rray Companies, Inc. iniston Ct. g, IL 60090 373-6729 <u>enray.com</u>	
1.4.	Emergency telephone number	
Emerger	ncy number	: (800) 373-6729 CHEMTREC (800) 424-9300 CHEMTREC International +1 (703) 527-3887 24 hr
SECTI	ON 2: Hazards identification	
2.1.	Classification of the substance or m	ixture
GHS-US	Classification	
Gases U Skin irrita Carcinog Specific	ble Aerosol 1 Inder Pressure - Compressed Gas ation 2 genicity 2 target organ toxicity - Single exposure 3 on hazard 1	
2.2.	Label elements	
GHS-US	6 labelling	
·	bictograms (GHS-US)	HS02 GHS04 GHS07 GHS08
-	vord (GHS-US)	: Danger
Hazard s	statements (GHS-US)	: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skir irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
Precauti	onary statements (GHS-US)	: Keep away from heat/sparks/open flames/hot surfacesNo smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling. Wear protective gloves. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well- ventilated place. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.
2.3.	Other hazards	
	ional information available	
2.4.	Unknown acute toxicity (GHS-US)	
77 % of	the mixture consists of ingredient(s) of u	nknown acute toxicity.
SECTI	ON 3: Composition/informatio	n on ingredients
3.1.	Substance	
Not appl	licable	
3.2.	Mixture	



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Name	Product identifier	%	GHS-US classification
Ethyl ether	(CAS No) 60-29-7	10 - 30	Flam. Liq. 1 Acute Tox. 4 (Oral) STOT SE 3
Carbon dioxide	(CAS No) 124-38-9	3 - 7	Compressed gas
n-Heptane	(CAS No) 142-82-5	1 - 5	Flam. Liq. 2 Skin Irrit. 2 STOT SE 3
Ethyl alcohol	(CAS No) 64-17-5	0.5 - 1.5	Flam. Liq. 2 Eye Irrit. 2A
Ethyl chloride	(CAS No) 75-00-3	0.1 - 1	Flam. Gas 1 Liquefied gas Carc. 2
Toluene	(CAS No) 108-88-3	< 0.1	Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	:	In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. irritation persists, get medical attention.
First-aid measures after ingestion	:	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
4.2. Most important symptoms and effect	ts,	both acute and delayed
Symptoms/injuries after inhalation	:	May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	:	Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	:	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	:	May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

Indication of any immediate medical attention and special treatment needed 4.3. Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Powder, water spray, foam, carbon dioxide.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the su	bstance or mixture	
Fire hazard	: Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon.	
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.	
5.3. Advice for firefighters		
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.	
SECTION 6: Accidental release measures		

6.1.	Personal precautions, protective equipment and emergency procedures		
Genera	Imeasures	: Use personal protection recommended in Section 8. Isolate the hazard area and der unnecessary and unprotected personnel. Eliminate sources of ignition.	iy entry to
6.2.	Methods and material for containme	ent and cleaning up	
For con	tainment	: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a container. Do not flush to sewer or allow to enter waterways. Use appropriate Person Protective Equipment (PPE).	
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EN (English)



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Keep away from sources of ignition No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Do not swallow. Avoid breathing gas/mist/vapors/spray. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.	
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.	
7.2. Conditions for safe storage, includ	Conditions for safe storage, including any incompatibilities	
Storage conditions	: Keep locked up and out of reach of children. Do not expose to temperatures exceeding 50°C/ 122°F. Store away from direct sunlight or other heat sources. Store in a well-ventilated place.	

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Heptane, branched, cyclic and linear (426260-76-6)			
USA ACGIH	ACGIH TWA	Not applicable.	
USA OSHA	OSHA PEL (TWA)	Not applicable.	
Ethyl ether (60-29-7)			
USA ACGIH	ACGIH TWA (ppm)	400 ppm	
USA ACGIH	ACGIH STEL (ppm)	500 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	1200 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm	
Carbon dioxide (124-38-9)			
USA ACGIH	ACGIH TWA (ppm)	5000 ppm	
USA ACGIH	ACGIH STEL (ppm)	30000 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	9000 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm	
n-Heptane (142-82-5)			
USA ACGIH	ACGIH TWA (ppm)	400 ppm	
USA ACGIH	ACGIH STEL (ppm)	500 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	2000 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm	
Ethyl alcohol (64-17-5)			
USA ACGIH	ACGIH STEL (ppm)	1000 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
Ethyl chloride (75-00-3)			

Etnyi Chioride (75-00-3)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	2600 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Toluene (108-88-3)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

300 ppm

USA OSHA

OSHA PEL (Ceiling) (ppm)



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Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

8.2. Exposure controls	
Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Safety glasses or goggles are recommended when using product.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and chemical properties	
Physical state	: Gas/Pressurized Liquid.
Appearance	: Clear.
Colour	: Colourless.
Odour	: Solvent.
Odour threshold	: No data available.
рН	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Self ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Flammable.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: No data available.
Solubility	: No data available.
Log Pow	: No data available.
Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.
9.2. Other information	
No additional information available	

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity No dangerous reaction known under conditions of normal use. 10.2. **Chemical stability** Stable under normal storage conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Possibility of hazardous reactions 10.3. No dangerous reaction known under conditions of normal use. 10.4. **Conditions to avoid** Heat. Incompatible materials. Sources of ignition. Air contact. Direct sunlight. Moisture. 10.5. Incompatible materials Acids. Chlorine. Oxidizers. Reducing agents 10.6. Hazardous decomposition products May include, and are not limited to: oxides of carbon.

EN (English)

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PENRAY STARTING FLUID

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
5301	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Ethyl ether (60-29-7)	
LD50 oral rat	1215 mg/kg
LD50 dermal rabbit	>20 mL/kg
n-Heptane (142-82-5)	
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (mg/l)	103 g/m³/4h
Ethyl alcohol (64-17-5)	
LD50 oral rat	7060 mg/kg
LC50 inhalation rat (mg/l)	124.7 mg/l/4h
Ethyl chloride (75-00-3)	•
LC50 inhalation rat (mg/l)	152 g/m³/2h
Toluene (108-88-3)	> 5000 mg///g
LD50 dermal rat	> 5000 mg/kg 12124 mg/kg
LD50 dermal rabbit	8390 mg/kg
LC50 inhalation rat (mg/l)	28.1 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Suspected of causing cancer.
Ethyl alcohol (64-17-5)	
IARC group	1 (in alcoholic beverages)
Ethyl chloride (75-00-3) IARC group	3
National Toxicity Program (NTP) Status	1
, ,	
Toluene (108-88-3)	
IARC group	3
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause drowsiness, dizziness and central nervous system depression. May cause respirator tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.
SECTION 12: Ecological information	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	May cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degradability	
5301	
Persistence and degradability	Not established.

EN (English)



PENRAY STARTING FLUID

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

according to the Hazard Communication Standard (CFR2	29 1910.1200) HazCom 2012.	
12.3. Bioaccumulative potential		
5301		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
No additional information available		
SECTION 13: Disposal consideration	ns	
13.1. Waste treatment methods		
Waste disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.	
Additional information	: Flammable vapours may accumulate in the container. Do not incinerate closed containers.	
SECTION 14: Transport information		
In accordance with DOT		
14.1. UN number		
UN-No.	: UN1950	
14.2. UN proper shipping name		
Proper Shipping Name	: Aerosols flammable	
Department of Transportation Hazard Classes	: 2.1	
Hazard labels		
14.3. Additional information		
Other information	: No supplementary information available.	
Special transport precautions	: Do not handle until all safety precautions have been read and understood.	
CECTION 45. Desculatory information		
	n	
SECTION 15: Regulatory information 15.1. US Federal regulations	n	
15.1. US Federal regulations Heptane, branched, cyclic and linear (42626	50-76-6)	
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15.1. US Federal regulations Heptane, branched, cyclic and linear (42626	50-76-6)	
15.1. US Federal regulations Heptane, branched, cyclic and linear (42626 Listed on the United States TSCA (Toxic Subs	50-76-6) tances Control Act) inventory	
15.1. US Federal regulations Heptane, branched, cyclic and linear (42626 Listed on the United States TSCA (Toxic Subs Ethyl ether (60-29-7)	50-76-6) tances Control Act) inventory	
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15.1. US Federal regulations Heptane, branched, cyclic and linear (42626 Listed on the United States TSCA (Toxic Subs Ethyl ether (60-29-7) Listed on the United States TSCA (Toxic Subs EPA TSCA Regulatory Flag	50-76-6) tances Control Act) inventory tances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
15.1. US Federal regulations Heptane, branched, cyclic and linear (42626 Listed on the United States TSCA (Toxic Subs Ethyl ether (60-29-7) Listed on the United States TSCA (Toxic Subs EPA TSCA Regulatory Flag Carbon dioxide (124-38-9) Listed on the United States TSCA (Toxic Subs	50-76-6) tances Control Act) inventory tances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
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PENRAY STARTING FLUID

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

Source Agener Carcinogen Classifications.				
IARC	International Agency for Research on Cancer.			
	 Carcinogenic to humans; Probably carcinogenic to humans; Possibly carcinogenic to humans; Not classifiable; Probably not carcinogenic to humans. 			
NTP	National Toxicology Program.			
	 Evidence of Carcinogenicity; Known Human Carcinogens; Reasonably anticipated to be Human Carcinogen; Substances delisted from report on Carcinogens; Twelfth Report - Items under consideration. 			

None.

SECTION 16: Other information Indication of changes :

Date of issue	:	05/28/2014
Other information	:	None.
NFPA health hazard	:	2
NFPA fire hazard	:	4
NFPA reactivity	:	0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



Safety Data Sheet

RUST-OLEUM CORPORATION * Trusted Quality Since 1921 * www.rustoleum.com

1. Identification			
Product Name:	PRO +LSPR 6PK FLAT GRAY PRIMER	Revision Date:	3/4/2020
Product Identifier:	7582838	Supercedes Date:	4/11/2019
Recommended Use:	Primer / Aerosols		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		
Emergency Telephone:	24 Hour Hotline: 847-367-7700		

2. Hazard Identification

Classification

Symbol(s) of Product



Signal Word Danger

Possible Hazards

44% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS

Carcinogenicity, category 1B	H350	May cause cancer.		
Compressed Gas	H280	Contains gas under pressure; may explode if heated.		
Eye Irritation, category 2A	H319	Causes serious eye irritation.		
Flammable Aerosol, category 1	H222	Extremely flammable aerosol.		
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects.		
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.		
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.		
GHS LABEL PRECAUTIONARY STATE P201		al instructions before use.		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO SMOKING.			
P211	Do not spray on an open flame or other ignition source.			
P251	Do not pierce or burn, even after use.			
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.			
P264	Wash hands thoroughly after handling.			

P271 Use only outdoors or in a well-ventilated area.

Date Printed: 3/4/2020	Page 2 / 6
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	For specific treatment see label.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501	Dispose of contents/container in accordance with local, regional and national regulations.

GHS SDS PRECAUTIONARY STATEMENTS

P363

Wash contaminated clothing before reuse.

3. Composition / Information On Ingredients

HAZARDOUS SUBSTANCES

TAZARDOUS SUBSTANCES				
Chemical Name	CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Propane	74-98-6	10-25	GHS04	H280
n-Butyl Acetate	123-86-4	10-25	GHS02-GHS07	H226-336
Acetone	67-64-1	10-25	GHS02-GHS07	H225-319-332-336
Dimethyl Carbonate	616-38-6	2.5-10	GHS02	H225
Hydrous Magnesium Silicate	14807-96-6	2.5-10	Not Available	Not Available
n-Butane	106-97-8	2.5-10	GHS04	H280
Titanium Dioxide	13463-67-7	2.5-10	Not Available	Not Available
Hydrotreated Light Distillate	64742-47-8	2.5-10	GHS08	H304
Solvent Naphtha, Light Aromatic	64742-95-6	1.0-2.5	GHS07-GHS08	H304-332
1,2,4-Trimethylbenzene	95-63-6	1.0-2.5	GHS02-GHS07- GHS08	H226-304-315-319-332-335
Zinc Phosphate	7779-90-0	1.0-2.5	Not Available	Not Available
Zinc Oxide	1314-13-2	0.1-1.0	Not Available	Not Available
Solvent Naphtha, Light Aromatic	64742-95-6	0.1-1.0	GHS07-GHS08	H304-332-340-350
Methyl Ethyl Ketoxime	96-29-7	0.1-1.0	GHS05-GHS06	H302-312-317-318-331
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07- GHS08	H225-304-332-351-373

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only in a well-ventilated area. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing. STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Contents under pressure. Do not expose to heat or store above 120 ° F. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Advice on Safe Handling of Combustible Dust: No Information

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	15.0	50 ppm	150 ppm	150 ppm	N.E.
Acetone	67-64-1	15.0	250 ppm	500 ppm	1000 ppm	N.E.
Dimethyl Carbonate	616-38-6	10.0	N.E.	N.E.	N.É.	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	N.E.	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Titanium Dioxide	13463-67-7	10.0	10 mg/m3	N.É.	15 mg/m3	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.Ê.	N.E.	N.Ê.	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	N.E.	N.E.	N.E.	N.E.
Zinc Phosphate	7779-90-0	5.0	N.E.	N.E.	N.E.	N.E.
Zinc Oxide	1314-13-2	1.0	2 mg/m3	10 mg/m3	5 mg/m3	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	1.0	N.E.	N.Ē.	N.E.	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.

8. Exposure Controls / Personal Protection

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use impervious gloves to prevent skin contact and absorption of this material through the skin.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Specific Gravity:	0.886	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-octanol/	
Decompostion Temp., °C:	N.D.	water:	N.D.
Boiling Range, °C:	-37 - 537	Explosive Limits, vol%:	0.9 - 13.0
Flammability:	Supports Combustion	Flash Point, °C:	-96
Evaporation Rate:	Faster than Ether	Auto-ignition Temp., °C:	N.D.
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)May cause genetic defects.

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
616-38-6	Dimethyl Carbonate	13000 mg/kg Rat	>5000 mg/kg Rabbit	140 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	N.E.	30
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	2500 mg/kg	N.E.
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-95-6	Solvent Naphtha, Light Aromatic	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.E.
95-63-6	1,2,4-Trimethylbenzene	3280 mg/kg Rat	>3160 mg/kg Rabbit	18 mg/L Rat
7779-90-0	Zinc Phosphate	>5000 mg/kg Rat	N.E.	N.E.
1314-13-2	Zinc Oxide	>5000 mg/kg Rat	N.E.	N.E.
64742-95-6	Solvent Naphtha, Light Aromatic	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.E.
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat

N.E. - Not Established

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name

1,2,4-Trimethylbenzene	95-63-6
Zinc Phosphate	7779-90-0
Zinc Oxide	1314-13-2
Ethylbenzene	100-41-4

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

California Proposition 65:

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

16. Other Information							
HMIS RAT Health:	INGS 2*	Flammability:	4	Physical Hazard:	0	Personal Protection:	x
NFPA RAT Health:	TINGS 2	Flammability:	4	Instability	0		
Maximum Ir	ncreme	ntal Reactivity	0.68				
SDS REVISION DATE:		ATE:	3/4/2020				
REASON FOR REVISION:			Substance Ha Substance Ha Substance an 09 - Physical 16 - Other Int	nemical Name Changed azardous Flag Changed azard Threshold % Chang d/or Product Properties 0 & Chemical Properties formation ement(s) Changed		l in Section(s):	

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Safety Data Sheet

RUST-OLEUM CORPORATION * Trusted Quality Since 1921 * www.rustoleum.com

1. Identification **Product Name:** PRO +LSPR 6PK FLAT GRAY PRIMER **Revision Date:** 3/4/2020 **Product Identifier:** 7582838 Supercedes Date: 4/11/2019 **Recommended Use:** Primer / Aerosols **Rust-Oleum Corporation Rust-Oleum Corporation** Supplier: Manufacturer: 11 Hawthorn Parkway 11 Hawthorn Parkway Vernon Hills, IL 60061 Vernon Hills, IL 60061 USA USA Preparer: **Regulatory Department** 24 Hour Hotline: 847-367-7700 **Emergency Telephone:**

2. Hazard Identification

Classification

Symbol(s) of Product



Signal Word Danger

Possible Hazards

44% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS

Carcinogenicity, category 1B	H350	May cause cancer.
Compressed Gas	H280	Contains gas under pressure; may explode if heated.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
GHS LABEL PRECAUTIONARY STATE		
D201	Obtain chacia	l instructions botoro uso
P201	•	l instructions before use.
P201 P210	•	I instructions before use. om heat, hot surfaces, sparks, open flames and other ignition sources. NO
	Keep away fro SMOKING.	
P210	Keep away fro SMOKING. Do not spray	om heat, hot surfaces, sparks, open flames and other ignition sources. NO
P210 P211	Keep away fro SMOKING. Do not spray Do not pierce	om heat, hot surfaces, sparks, open flames and other ignition sources. NO on an open flame or other ignition source.
P210 P211 P251	Keep away fro SMOKING. Do not spray Do not pierce Avoid breathin	om heat, hot surfaces, sparks, open flames and other ignition sources. NO on an open flame or other ignition source. or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

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P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	For specific treatment see label.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501	Dispose of contents/container in accordance with local, regional and national regulations.

GHS SDS PRECAUTIONARY STATEMENTS

P363

Wash contaminated clothing before reuse.

3. Composition / Information On Ingredients

HAZARDOUS SUBSTANCES

TAZARDOUS SUBSTANCES				
Chemical Name	CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Propane	74-98-6	10-25	GHS04	H280
n-Butyl Acetate	123-86-4	10-25	GHS02-GHS07	H226-336
Acetone	67-64-1	10-25	GHS02-GHS07	H225-319-332-336
Dimethyl Carbonate	616-38-6	2.5-10	GHS02	H225
Hydrous Magnesium Silicate	14807-96-6	2.5-10	Not Available	Not Available
n-Butane	106-97-8	2.5-10	GHS04	H280
Titanium Dioxide	13463-67-7	2.5-10	Not Available	Not Available
Hydrotreated Light Distillate	64742-47-8	2.5-10	GHS08	H304
Solvent Naphtha, Light Aromatic	64742-95-6	1.0-2.5	GHS07-GHS08	H304-332
1,2,4-Trimethylbenzene	95-63-6	1.0-2.5	GHS02-GHS07- GHS08	H226-304-315-319-332-335
Zinc Phosphate	7779-90-0	1.0-2.5	Not Available	Not Available
Zinc Oxide	1314-13-2	0.1-1.0	Not Available	Not Available
Solvent Naphtha, Light Aromatic	64742-95-6	0.1-1.0	GHS07-GHS08	H304-332-340-350
Methyl Ethyl Ketoxime	96-29-7	0.1-1.0	GHS05-GHS06	H302-312-317-318-331
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07- GHS08	H225-304-332-351-373

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only in a well-ventilated area. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing. STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Contents under pressure. Do not expose to heat or store above 120 ° F. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Advice on Safe Handling of Combustible Dust: No Information

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	15.0	50 ppm	150 ppm	150 ppm	N.E.
Acetone	67-64-1	15.0	250 ppm	500 ppm	1000 ppm	N.E.
Dimethyl Carbonate	616-38-6	10.0	N.E.	N.E.	N.É.	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	N.E.	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Titanium Dioxide	13463-67-7	10.0	10 mg/m3	N.É.	15 mg/m3	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.Ê.	N.E.	N.Ê.	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	N.E.	N.E.	N.E.	N.E.
Zinc Phosphate	7779-90-0	5.0	N.E.	N.E.	N.E.	N.E.
Zinc Oxide	1314-13-2	1.0	2 mg/m3	10 mg/m3	5 mg/m3	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	1.0	N.E.	N.Ē.	N.E.	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.

8. Exposure Controls / Personal Protection

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use impervious gloves to prevent skin contact and absorption of this material through the skin.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Specific Gravity:	0.886	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-octanol/	
Decompostion Temp., °C:	N.D.	water:	N.D.
Boiling Range, °C:	-37 - 537	Explosive Limits, vol%:	0.9 - 13.0
Flammability:	Supports Combustion	Flash Point, °C:	-96
Evaporation Rate:	Faster than Ether	Auto-ignition Temp., °C:	N.D.
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)May cause genetic defects.

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
616-38-6	Dimethyl Carbonate	13000 mg/kg Rat	>5000 mg/kg Rabbit	140 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	N.E.	30
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	2500 mg/kg	N.E.
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-95-6	Solvent Naphtha, Light Aromatic	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.E.
95-63-6	1,2,4-Trimethylbenzene	3280 mg/kg Rat	>3160 mg/kg Rabbit	18 mg/L Rat
7779-90-0	Zinc Phosphate	>5000 mg/kg Rat	N.E.	N.E.
1314-13-2	Zinc Oxide	>5000 mg/kg Rat	N.E.	N.E.
64742-95-6	Solvent Naphtha, Light Aromatic	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.E.
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat

N.E. - Not Established

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name

1,2,4-Trimethylbenzene	95-63-6
Zinc Phosphate	7779-90-0
Zinc Oxide	1314-13-2
Ethylbenzene	100-41-4

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

California Proposition 65:

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

16. Other	Information					
HMIS RATINO Health: 2*		4	Physical Hazard:	0	Personal Protection: X	
NFPA RATING Health: 2	GS Flammability:	4	Instability	0		
Maximum Incremental Reactivity		0.68				
SDS REVISION DATE:		3/4/2020				
REASON FOR	REVISION:	Substance Ha Substance Ha Substance an 09 - Physical 16 - Other Inf	nemical Name Changed azardous Flag Changed azard Threshold % Changed d/or Product Properties 0 & Chemical Properties formation ement(s) Changed		in Section(s):	

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



SDS Revision Date: 01/07/2018

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Product Identity Alternate Names

SAF-T-EZE REGULAR ANTI-SEIZE

Part Numbers: 80102, 80112, 80122,80125, 80127, 80137, 80153, 80155, 80157, 80158, 80160, 80161, 80165, 80178, 80189, 80199 Product Type: Lubricating Grease

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Lubricating Grease
Application Method	See Technical Data Sheet.
1.3. Details of the supplier of the safety data sheet	
Company Name	SAF-T-LOK International Corporation
	300 EISENHOWER LANE NORTH
	LOMBARD, IL 60148
Emergency	
CHEMTREC (USA)	(800) 424-9300

CHEWIREC (USA)	(800) 424-9300
24 hour Emergency Telephone No.	(703) 527-3887
Customer Service: SAF-T-LOK International Corporation	(630) 495-2001
Corporation	

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Aquatic Chronic 2;H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



H411 Toxic to aquatic life with long lasting effects.



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[Prevention]:

P273 Avoid release to the environment. [Response]:

P391 Collect spillage. [Storage]: No GHS storage statements [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Petroleum distillates, hydrotreated heavy napthenic CAS Number: 0064742-52-5	50 - 75	Acute Tox. 4;H312	[1]
Graphite CAS Number: 0007782-42-5	10 - 25		[1][2]
Copper CAS Number: 0007440-50-8	10-25		[1][2]
Zinc oxide CAS Number: 0001314-13-2	1.0 - 10	Aquatic Acute 1;H400 Aquatic Chronic 1;H410	[1][2]
Aluminum CAS Number: 0007429-90-5	1.0-10		[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.



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	Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview Skin Contact: Usually no effect, however, as with any chemical, prolonged, excessive, or repeated exposure may cause mild to moderate skin irritation, exhibited by redness, drying and cracking of unprotected skin.

Eye Contact: May irritate with slight pain and redness.

Respiratory/ Inhalation: Usually none, however, as with any chemical product, some irritation may occur.

Ingestion: Amounts transferred to mouth by fingers, etc, during normal operation should not cause injury.

Medical conditions generally aggravated by exposure: None known, however any chemical product may enhance allergies already present in certain individuals.

This product does not require exceptional labeling due to the evaluation procedure of the "General Classification guideline for preparations of the EU". See section 2 for further details.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, dry chemical

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: None

5.3. Advice for fire-fighters

Air mask and procedures for fighting chemical fires. Do not inhale gases.



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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Prevent material from entering floor drains, sewers, or any bodies of water. Scoop up into waste container or soak up with absorbent material. Store in a closed container until disposal.

7. Handling and storage

7.1. Precautions for safe handling

No special precautions necessary if used properly. Avoid breathing vapors. Wash hands thoroughly at mealtime and end of shift.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Isolated storage facility/ warehouse not required. Store in a cool, dry location (60-90°F) in a well-ventilated area in original container. Keep container tightly closed when not in use.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

None

8. Exposure controls and personal protection

8.1. Control parameters

Exposure			
CAS No.	Ingredient	Source	Value
		OSHA	TWA 5 mg/m3 (fume) TWA 15 mg/m3 (total dust) TWA 5 mg/m3 (resp dust)
0001314-13-2	Zinc oxide	ACGIH	TWA: 2 mg/m3STEL: 10 mg/m3 A1, 1, Revised 2003,
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OSHA	TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)



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			TWA 1.0 mg/m3 Revised 2008
0007429-90-5	007429-90-5 Aluminum	NIOSH	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		Supplier	No Established Limit
	OSHA	TWA: mg/m ³ [Note: the PEL also applies to other copper compounds 9as Cu) except copper fume.]	
0007440 50 9	Coppor	ACGIH	TWA: 0.2 mg/m ³ (fume) 1 mg/m ³ (dusts/mists)
0007440-50-8	0007440-50-8 Copper	NIOSH	TWA: 1 mg/m ³ [Note: The REL also applies to other copper compounds (as Cu) except copper fume.]
		Supplier	No Established Limit
	0007782-42-5 Graphite	OSHA	TWA 15mg/m3 TWA mppcf
0007702 42 5		ACGIH	TWA 2 mg/m3
0007782-42-5		NIOSH	TWA 2.5 mg/m3 (resp)
	Supplier	No Established Limit	
	0064742-52-5 Petroleum distillates, hydrotreated heavy napthenic	OSHA	No Established Limit
0064742 52 5		ACGIH	No Established Limit
0004742-52-5		NIOSH	No Established Limit
		Supplie	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH.

	Carcinogen Data				
CAS No.	Ingredient	Source	Value		
0001314-13-2	Zinc oxide	OSHA	Select Carcinogen: No		
		NTP	Known: No; Suspected: No		
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
		OSHA	Select Carcinogen: No		
0007429-90-5	Aluminum	NTP	Known: No; Suspected: No		
	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;			
		OSHA	Select Carcinogen: No		
007440-50-8	Copper	NTP	Known: No; Suspected: No		
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;		
		OSHA	Select Carcinogen: No		
007782-42-5	Graphite	NTP	Known: No; Suspected: No		
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;		
		OSHA	Select Carcinogen: No		
0064742-52-5	Petrleum distillates, hydrotreated heavy napthenic	NTP	Known: No; Suspected: No		
neavy napurenie		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;		

8.2. Exposure controls	
Respiratory	No respiratory protection required, but normal good ventilation is recommended. Forced ventilation may be required if concentrations exceed normal use exposure.
Eyes	Not required if application method is proper. Avoid contact with eyes.
Skin	Wear overalls to keep skin contact to a minimum. Use impermeable gloves (neoprene, butyl rubber, natural rubber), as necessary to avoid skin contact, as well as proper clothing



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or plastic apron. Wash hands before eating, drinking, or using restroom.

Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Eye wash stations should be located within 100 feet or 10 second walk of the work area. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance Odor Odor threshold pH International Corporation Melting point / freezing point Boiling point Flash Point Evaporation rate (Ether = 1) Flammability (solid, gas) Upper/lower flammability or explosive limits

Vapor pressure (Pa) (mm Hg.)	< 5 @ 30
Vapor Density	N/A
Specific Gravity	1.2
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Mea
Auto-ignition temperature	Not Mea
Decomposition temperature	Not Mea
Viscosity (cSt)	Not Mea
VOC %	<0.1% (0
% Solid	35-48%
9.2. Other information	

Silver grey Paste Mild/Inoffensive Not Measured Not Determined Not Determined >600° F (316°C) 410° F (210° C) (C.O.C.) Not Determined Not Applicable Lower Explosive Limit: N/A **Upper Explosive Limit: N/A** 5 @ 30° F N/A .2 nsoluble Not Measured Not Measured Not Measured Not Measured 0.1% (cut)

9.2. Other information

DMSO extract IP346: Less than 3.0 wt% (mineral oil component only)

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur. **10.2. Chemical stability**



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Stable under normal circumstances.
10.3. Possibility of hazardous reactions
No data available.
10.4. Conditions to avoid
Strong oxidizing agents
10.5. Incompatible materials
No data available.
10.6. Hazardous decomposition products
None

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Petroleum distillates, hydrotreated heavy napthenic – (64742-52-5)	5,000.00 Rat – Category: 5	No data available	2,000.00, Rabbit – Category: 4	No data available	No data available
Zinc oxide - (1314-13-2)	5,000.00, Rat -	No data	No data	2.50, Mouse -	No data
	Category: 5	available	available	Category: 4	available
Copper – (7440-50-8)	2,500.00, Rat -	>2,000.00, Rat -	No data	5.11, Rat -	No data
	Category: 5	Category: 5	available	Category: NA	available
Graphite - (7782-42-5)	No data	No data	No data	No data	No data
	available	available	available	available	available
Aluminum – (7429-90-5)	No data	No data	No data	No data	No data
	available	available	available	available	available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation		Not Applicable
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable



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STOT-repeated exposure	 Not Applicable
Aspiration hazard	 Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Zinc Oxide is toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Petroleum distillates, hydrotreated heavy napthenic – (64742-52-5)	5,000.00 Oncorhynchus mykiss	1,000.00 Daphnia Magna	1,000.00 (96 hr), Scenedesmus subspicatus
Zinc oxide - (1314-13-2)	1.10, Oncorhynchus mykiss	0.098, Daphnia magna	0.042 (72 hr), Pseudokirchneriella subcapitata
Graphite – (7782-42-5)	Not Available	Not Available	Not Availableq
Aluminum – (7429-90-5)	Not Available	Not Available	Not Available
Copper – (7440-50-8)	0.0103, Pimephales promelas	0.0025, Daphnia magna	0.018 (72 hr), Pseudokirchneriella subcapitata

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

DOT (Domestic Surface IMO / IMDG (Ocean Transportation) ICAO/IATA



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	Transportation)		
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Environmentally hazardous substance, liquid, N.O.S	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable DOT Label:	IMDG: 9 Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental ha	zards		
IMDG N	Marine Pollutant: Yes (Zinc o	oxide)	
14.6. Special precautio	ns for user		
1	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	Not Regulated
US EPA Tier II Hazards	Fire: No
	Sudden Release of Pressure: No
	Reactive: No
	Immediate (Acute): No
	Delayed (Chronic): No
EPCRA 311/312 Chemie Copper (5,000.0	
EPCRA 302 Extremely (No Product Ingred	
EPCRA 313 Toxic Cher	nicals:
Zinc oxide	
Proposition 65 - Carcin (No Product Ingree	
Proposition 65 - Develo (No Product Ingred	opmental Toxins (>0.0%): dients Listed)
Proposition 65 - Female (No Product Ingree	e Repro Toxins (>0.0%): dients Listed)
Proposition 65 - Male R (No Product Ingred	• • •



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N.J. RTK Substances (>1%):

Zinc oxide Graphite Aluminum Copper

Penn RTK Substances (>1%):

Zinc oxide Graphite Aluminum Copper

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. SAF-T-LOK accepts no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H312 May be harmful in contact with skin.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information on this material safety data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user. SAF-T-LOK International Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of SAF-T-LOK International Corporation products.

End of Document



Material Safety Data Sheet

Section I	 Product and Company Identifica 	tion		
Supplier Name	Pyramex Safety Products, LL			
	281A Moore Lane			
Address (number, street, state & zip code)	Collierville, TN 38017			
Phone Number	1-800-736-8673			
Fax Number	1-901-861-4967			
Emergency Phone Number	Call INFOTRAC: 1-8	00-535-5053		
Product Name	Pyramex Safety Lens Cleanin	g Towelette		
Trade Names and Synonyms	Towelette, LCT1, LCT100, LC	CT100SP, LCTAHS, LCTFAS,		
Trade Names and Oynonyms	LCTHAR, LCTWES, LCTSTA	., LCC100		
Date Issued	12/6/2007			
Date Revised	12/3/2009			
Se	ction II - Hazards Identification			
	Potential Health Effects			
Principal Routes of Exposure	Skin contact			
Acute Toxicity				
Eyes	Vapor May cause irritation.			
_,				
	May be harmful if inhaled. Avoid breathir	• • •		
Inhalation	respiratory tract. May cause central nerv	ous system depression with nausea,		
	headache, dizziness, and vomiting.			
Skin	May be harmful in contact with skin. May cause irritation.			
Incontion	May be harmful if swallowed. May cause			
Ingestion	vomiting and diarrhea.			
Chronic Effects	Avoid repeated exposure. Contains a known or suspected reproductive toxin.			
	Central nervous system. Preexisting eye	disorders Blood Disorders Kidney		
Aggravated Medical Conditions	disorders. Liver disorders. Overexposure			
Aggravated medical conditions	reproductive disorder(s). Skin Disorders.			
Interactions with other Chemicals	Use of Alcoholic beverages may enhance			
Section III -	Composition/Information on Ingre	edients		
Component	CAS#	%(WT)		
Water	773-18-5	60-85		
Isopropyl Alcohol	67-63-0	10-30		
Anti-Fog	56-81-5	<1		
Anti-Static	68391-01-5	<1		
Supplier Trade Secret	Proprietary	5-10		
	Section IV - First Aid Measures			
	Flush well with water, also under eyelids,	for at least 15 minutes. Get Medical		
EYES	assistance if symptoms persist.			
	Wash well with soap and water. If irritatio	n persists, or allergic reaction occurs		
SKIN	call a physician.	. , ,		
Inholotion	Remove to fresh air and give oxygen if ne	eeded. If not breathing, give artificial		
Inhalation	respiration and call for Medical assistance			
Ingestion	DO NOT induce vomiting. Rinse Mouth.			
Ingestion	anything by mouth to an unconscious per			
Notes to Physicians	Treat symptomatically			

	Se	ction V - Fire-Fighting Measures		
Extinguishing Media		Use extinguishing measures that		
		circumstances and the surround	ling environment.	
Uniform Fire Code		Irritant: Liquid		
		Combustible Liquid III-B		
Flash Point		Not available		
Hazardous Byproducts	s of Combustion	Carbon oxides		
Explosion Data	aniaal luunaat			
Sensitivity to Mech		Not sensitive		
Sensitivity to Static	Discharge	Yes	resource domand MSHA/NIOSH	
Protective Equipment		Wear Self contained breathing apparatus pr approved (or equivalent), and full protective		
Special Precautions -	NFPA			
Health Hazard		2		
Flammability		1		
Stability		0		
	Sectio	on VI - Accidental Release Measures		
Personal Precautions		Use personal protective equipment. Avoid	contact with skin and eyes. Remove	
		all sources of ignition.		
Containment Methods		Prevent further leakage or spillage if safe to		
Clean-up Methods		Use personal protective equipment. Soak u	up with absorbent material. Pick up	
		and transfer to properly labeled containers.		
	Se	ction VII - Handling and Storage		
		Handle in accordance with good industrial h	ygiene and safety practices. Avoid	
Handling		contact with skin and clothing. Wear persor		
landing		from open flames, hot surfaces and sources	s of ignition. Keep out of the reach of	
		children.		
0.1		Keep container tightly closed. Keep away f	rom open flames, hot surfaces and	
Storage		sources of ignition. Keep out of the reach o	•	
	Section VIII	- Exposure Controls/Personal Prote	oction	
Exposure Guidelines				
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Isopropyl Alcohol	+400 ppmSTEL	TWA:400ppm	IDLH:2000 ppm 10% LEL	
	TWA: 200 ppm	TWA:980mg/m3	TWA:400 PPM	
	100A. 200 ppm	(vacated) TWA: 400 ppm	TWA: 980 mg/m3	
		(vacated) TWA:980 mg/m3	STEL: 1225 mg/m3	
		(vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm	STEL:500 PPM	
		(vacaled) STEE. 500 ppm		
Supplier Trade Secret	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm	
	110.20 ppm	TWA: 240 mg/m3	TWA: 5 ppm	
		(vacated) TWA: 25 ppm	TWA: 24 mg/m3	
		(vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin	~	
Engineering Measures	6	Showers. Eyewash Stations. Ventilation Sy	vstems	
Personal Protective Ed		,		
Eye & Face Protecti		No special equipment required		
Skin & Body Protect		Protective gloves		
Respiratory Protect	ion	If exposure limits are exceeded or irritation approved respiratory protection should be w respirators may be required for high airborn Respiratory protection must be provided in a regulations.	vorn. Positive pressure supplied air e contaminant concentrations.	
Hygiene Measures		When using, do not eat, drink or smoke. Re clothing before re-use. Provide regular clear clothing.		

Odor Mild Alcohol Smell Physical State Solid. Solid containing liquid. Moist paper PH 7 Section X - Stability and Reactivity Stable under recommended storage conditions Stable under recommended storage conditions Stable under recommended storage conditions Carbon oxides Hear doub composition or By-Products Razardous Decomposition or By-Products Razardous Decomposition or By-Products May be harmful by inhalation, ingestion or skin absorption Chemical Name LD50 Oral LD50 Inhalation Query to grade multicly index to the point of th	Appearance		White solid	al and Chemic	• • • • • •	
Physical State Solid. Solid containing liquid. Moist paper 7 Stability Stabi						
pi 7 Section X - Stability and Reactivity Stability Stability (Material to Avoid) Section XI - Toxicological Information Actus Toxicity Actus Toxicity Actus Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogenicity Chemical Name ACGIH IARC NTP OSHA Supplier Trade Secret A3 Action XI - Ecological Information Action XI - Ecological Information Section XI - Ecological Information Action toxicity to Alga Toxicity to Alga					Moist paper	
Section X - Stability and Reactivity Stability momentalibility (Material to Avoid) Stable under recommended storage conditions Stability (Material to Avoid) Stable under recommended storage conditions Conditions to Avoid Stable under recommended storage conditions Heat, Flames, Sparks Carbino oxides Hazardous Decomposition or By-Products Heat, Flames, Sparks Acute Toxicity May be harmful by inhalation, ingestion or skin absorption Chemical Name LD50 Oral LD50 Dermal LD50 Inhalation Water 90 mL/kg (Rat) 2200 mg/kg (Rat) 2.21 mg/L (Rat) 4h Supplier Trade Secret 470 mg/kg (Rat) 220 mg/kg (Rabhi) 2.21 mg/L (Rat) 4h Supplier Trade Secret A3 Accient Contronce of Governmental Industrial Hygienists Asian Contronce of Governmental Industrial Hygienists AS: Animal Carcinogen Section XI - Ecological Information Ecos Stable of Cological Stable of Cological Stable of Cological Stable of Cological Information Ecotoxicity Section XI - Ecological Information Ecos 13299 mg/L 48h Ecos 13299 mg/L 48h Supplier Trade Secret Ecos 1000 mg/L (Pa) Proteints Stable of Cological Information Ecos 13299 mg/L 48h<	-					
Stability Stability <thstability< th=""> <thstability< th=""> <ths< td=""><td>P · ·</td><td>Sect</td><td>tion X - St</td><td>tability and Re</td><td>activity</td><td></td></ths<></thstability<></thstability<>	P · ·	Sect	tion X - St	tability and Re	activity	
Incompatibility (Material to Avoid) Conditions to Avoid Hazardous Pecomposition or By-Products Hazardous Polymerization Section XI - Toxicological Information Acute Toxicity Chemical Name LD50 Oral LD50 Dermal LD50 Dermal LD50 Inshalation, ingestion or skin absorption Chemical Name LD50 Oral Acute Toxicity Chemical Name Acute Toxicity Supplier Trade Secret Acute Toxicity Chemical Name Acute Toxicity Acute Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogenicity Chemical Name Acute Toxicity Chemical Name Acute Toxicity Contrail Nervous System (CNS), Eyes, Hematopoletic System, Kidney, Liver, Respiratory System, Skin. Ecotoxicity The environmental impact of this product has not been fully investigated. Ecotoxicity effects of component substances follows: Chemical Name Toxicity to Algae Toxicity to Algae Coso-sidop males 96h LC50-1400 mg/L 2Ph Pimephales promelas 96h LC50-1400 mg/L 2Ph Ecos-1100 mg/L 2Ph Ecos-1100 mg/L 2Ph Chemical Name Chemical Name Chemical Name Chemical Name Chemical Name Chemical Name Chemical Name Coso-sidop mg/L deponis Maste Disposal Methods Federatir By Social Considerations This material as supplied is not a hazardous waste according to Federatir guidations, Corsult 40 CFR 261. This material as supplied is not a hazardous waste according to The material as supplied is not a hazardous waste according to the material is processed or therwise altered. Consult the appropriate stater, regional, or local regulations for additional requirement	Stability					ons
Hazardous Decomposition or By-Products Will Not Occur Section XI - Toxicological Information Acute Toxicity May be harmful by Inhalation, Ingestion or skin absorption Chemical Name U550 Oral LD50 Dermal LD50 Inhalation Water 0 mL/kg (Rat) Isopropyl Alcohol Chemical Name Acute Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogonicity Chemical Name Acute Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogonicity Chemical Name Acute Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogonicity Chemical Name Acute Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogonicity Chemical Name Acute Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogonicity Chemical Name Acute Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogonicity Chemical Name Acute Toxicity to Alga Toxicity to System (CNS), Eyes, Hematopoletic System, Kidney, Liver, Respiratory System, Skin. Section XII - Ecological Information Ecotoxicity Chemical Name Coso=96400 mg/L. Pinephales promelas 96h LC50=1000mg/L 28 Ecos 1000mg/L 29 Ecos 1000mg/L 29 Ecos 1000mg/L 29 Ecos 1000mg/L 24 Coso=4400 mg/L. Pinephales promelas 96h LC50=16400 mg/L. Pinephales promelas 96h LC50=1698-1140 mg/L 24 Ecos 1229 mg/L 48h Vinephales promelas 96h LC50=1629 Mg/L 200 mg/L 24 Coso=1229 Adg. C Supplier Trade Secret LC50=16400 mg/L Lepomis macrochirus 96h Supplier Trade Secret Chemical Name Chemical Name Cose Cosout II - Disposal Considerations Waste Disposal Methods This material as supplied is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste, if chemical additions are made to this material, or the material is not anazardous waste. Consult the appropriate state, regional, or local regulations for additiona	Incompatibility (Mate	rial to Avoid)				
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Chemical Name Log Pow Isopropyl Alcohol =0.05 25A deg. C Supplier Trade Secret =0.81 25A deg. C Section XIII - Disposal Considerations Waste Disposal Methods This material as supplied is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste, if chemical additions are made to this material, or the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.			Pimephal LC50 Pimephal	es promelas 96h =9640 mg/L es promelas 96h		1 C50 1698-1940 mg/L 244
Isopropyl Alcohol =0.05 25A deg. C Supplier Trade Secret =0.81 25A deg. C Section XIII - Disposal Considerations Waste Disposal Methods This material as supplied is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste, if chemical additions are made to this material, or the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.	Supplier Trade Secret		Pimephal LC50 Pimephal LC50=149	es promelas 96h =9640 mg/L es promelas 96h 90 mg/L Lepomis		
Isopropyl Alcohol =0.05 25A deg. C Supplier Trade Secret =0.81 25A deg. C Section XIII - Disposal Considerations Waste Disposal Methods This material as supplied is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste, if chemical additions are made to this material, or the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.	Supplier Trade Secret		Pimephal LC50 Pimephal LC50=149	es promelas 96h =9640 mg/L es promelas 96h 90 mg/L Lepomis		LC50 1698-1940 mg/L 24h EC50=1720 mg/L 24h
Supplier Trade Secret =0.81 25A deg. C Section XIII - Disposal Considerations Waste Disposal Methods This material as supplied is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste, if chemical additions are made to this material, or the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.			Pimephal LC50 Pimephal LC50=149	es promelas 96h =9640 mg/L es promelas 96h 90 mg/L Lepomis	Loa Pow	
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Waste Disposal Methods This material as supplied is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste, if chemical additions are made to this material, or the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.	C Is	hemical Name	Pimephal LC50 Pimephal LC50=149	es promelas 96h =9640 mg/L es promelas 96h 90 mg/L Lepomis	=0.05 25A deg. C	EC50=1720 mg/L 24h
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hazardous waste, if chemical additions are made to this material, or the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.	C Is Sup	hemical Name opropyl Alcohol plier Trade Secret Sectic	Pimephal LC50 Pimephal LC50=14§ macr	es promelas 96h =9640 mg/L es promelas 96h 90 mg/L Lepomis ochirus 96h	=0.05 25A deg. C =0.81 25A deg. C derations	EC50=1720 mg/L 24h
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to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.	C Is Sup	hemical Name opropyl Alcohol plier Trade Secret Sectic	Pimephal LC50 Pimephal LC50=14§ macr	es promelas 96h =9640 mg/L es promelas 96h 90 mg/L Lepomis ochirus 96h isposal Consid This material as s Federal regulatior	=0.05 25A deg. C =0.81 25A deg. C derations supplied is not a hazardous ns (40 CFR 261). This ma	EC50=1720 mg/L 24h
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additional requirements.	C Is Sup	hemical Name opropyl Alcohol plier Trade Secret Sectic	Pimephal LC50 Pimephal LC50=14§ macr	es promelas 96h =9640 mg/L es promelas 96h 90 mg/L Lepomis ochirus 96h isposal Consid This material as s Federal regulatior hazardous waste, the material is pro	=0.05 25A deg. C =0.81 25A deg. C derations supplied is not a hazardous ns (40 CFR 261). This ma , if chemical additions are n pocessed or otherwise altered	EC50=1720 mg/L 24h s waste according to terial could become a made to this material, or ed. Consult 40 CFR 261
·	C Is Sup	hemical Name opropyl Alcohol plier Trade Secret Sectic	Pimephal LC50 Pimephal LC50=14§ macr	es promelas 96h =9640 mg/L es promelas 96h 00 mg/L Lepomis ochirus 96h isposal Consid This material as s Federal regulatior hazardous waste, the material is pro to determine whe	=0.05 25A deg. C =0.81 25A deg. C derations supplied is not a hazardous ns (40 CFR 261). This ma , if chemical additions are in pocessed or otherwise altered ther the altered material is	EC50=1720 mg/L 24h s waste according to terial could become a made to this material, or ed. Consult 40 CFR 261 a hazardous waste.
	C Is Sup	hemical Name opropyl Alcohol plier Trade Secret Sectic	Pimephal LC50 Pimephal LC50=14§ macr	es promelas 96h =9640 mg/L es promelas 96h 00 mg/L Lepomis ochirus 96h isposal Consid This material as s Federal regulatior hazardous waste, the material is pro- to determine whe Consult the appro-	=0.05 25A deg. C =0.81 25A deg. C derations supplied is not a hazardous ns (40 CFR 261). This ma , if chemical additions are no pocessed or otherwise altered ther the altered material is opriate state, regional, or lo	EC50=1720 mg/L 24h s waste according to terial could become a made to this material, or ed. Consult 40 CFR 261 a hazardous waste.
	C Is Sup Waste Disposal Meth	chemical Name copropyl Alcohol plier Trade Secret Section ods	Pimephal LC50 Pimephal LC50=14§ macr	es promelas 96h =9640 mg/L es promelas 96h 00 mg/L Lepomis ochirus 96h isposal Consid This material as s Federal regulatior hazardous waste, the material is pro to determine whe Consult the appro additional require	=0.05 25A deg. C =0.81 25A deg. C derations supplied is not a hazardous ns (40 CFR 261). This ma , if chemical additions are no pocessed or otherwise altered ther the altered material is opriate state, regional, or lo ments.	EC50=1720 mg/L 24h s waste according to terial could become a made to this material, or ed. Consult 40 CFR 261 a hazardous waste. cal regulations for
	C Is Sup Waste Disposal Meth	shemical Name sopropyl Alcohol plier Trade Secret Section ods	Pimephal LC50 Pimephal LC50=149 macr	es promelas 96h =9640 mg/L es promelas 96h 20 mg/L Lepomis ochirus 96h isposal Consid This material as s Federal regulatior hazardous waste, the material is pro to determine whe Consult the appro additional require Dispose of in acco	=0.05 25A deg. C =0.81 25A deg. C derations supplied is not a hazardous ns (40 CFR 261). This ma , if chemical additions are no pocessed or otherwise altered ther the altered material is opriate state, regional, or lo ments.	EC50=1720 mg/L 24h s waste according to terial could become a made to this material, or ed. Consult 40 CFR 261 a hazardous waste. acal regulations for

Chemical Name	California Hazardous Waste Status		
Isopropyl Alcohol	Toxic. Ignitable.		
Section XIV - Transport Information			

DOT, TDG, MEX, ICAO, ITAT, IMDG/IMO, RID, ADR, ADN - Product not regulated.

Section XV - Regulatory Information

International Inventories

TSC	Complies	IECSC	Does not comply
DSL	Does not comply	KECL	Does not comply
EINECS/EL	INCSDoes not comply	PICCS	Does not comply
ENCS	Does not comply	AICS	Does not comply

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, part 372.

Chemical Name	CAS No.	% by Weight	SARA 313 - Threshold Values %
Isopropyl Alcohol	67-63-0	10-30	1
Supplier Trade Secret	Proprietary	5-10	1

SARA 313/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Pressure Release Hazard	No
Reactive Hazard	No

Clean Water Act

This Product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isopropyl Alcohol				Х

Clean Air Act, Sec. 112 Hazardous Air Pollutants (HAPS)(see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Sec. 112 of the Clean Air Act.

Chemical Name	CAS No.	% by Weight	HAPs Data	VOC Chemicals
Supplier Trade Secret	Proprietary	5-10	Present (includes mono-and di- ethers of ethylene glycol and triethylene glycol, except ethylene glycol monobutyl ether [EGBE]. See 40 CFR 63.62 for redefinition of glycol ethers listed as hazardous air pollutants.	Group I

CERCLA

This material as supplied does not contain any substances regulated as hazardous substances under the Comprehensive Environmental response Compensation and Liability Act(CERCLA)(40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA)(40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

Mexico - Gra	ns de	Moderate risk - Grade 2	
Chemica	Name	Carcinogen Status	Exposure Limits
Isopropyl Alcohol		Mexico: TWA=26 ppm	
			Mexico: TWA=120 mg/m3
			Mexico: STEL=360 mg/m3
			Mexico: STEL=75 ppm
Supplier Tra	de Secret		Mexico: TWA=400 ppm
			Mexico: TWA=980 mg/m3
			Mexico: STEL=1225 mg/m3
			Mexico: STEL=500 ppm
B3 D2B	Toxic Ma	tible Liquid aterials	
Che	mical Name	Nationa	I Pollutant Release Inventory
Isopropyl Alcohol			X
Supplier Trade Secret			Х
		Section XVI - Other Information	n

	ND COMPANY IDENTIFICATION
	HMIS CODES
PRODUCT NAME RectorSeal No. 5	Health 1 Flammability 2 Reactivity 0
PRODUCT CODES	PPI B
25112, 25191, 25271, 25300, 254 25790, 25793 CHEMICAL FAMILY	31, 25551, 25552, 25631, 25633, 25780,
Organic USE	
Pipe Thread Sealant	
MANUFACTURER'S NAME The RectorSeal Corporation 2601 Spenwick Drive Houston, Texas 77055 USA	EMERGENCY TELEPHONE NO. Chemtrec 24 Hours (800)424-9300 USA (703)527-3887 International
-	
DATE OF VALIDATION January 9, 2013 DATE OF PREPARATION January 9, 2013	TECHNICAL SERVICE TELEPHONE NO. (800)231-3345 or (713)263-8001
Section 2 HAZARDS ID	
EMERGENCY OVERVIEW DSHA Hazards Combustable TARGET ORGANS Not Classified GHS CLASSIFICATION PHYSICAL HAZARDS Combustable liquid (Category 4) HEALTH HAZARDS Acute Toxicity: Dral: Not Classified Dermal: Not Classified Dermal: Not Classified Skin Corrosion/Irritation: Not Classifier Skin Sensitization: Not Classifier Respiratory Sensitization: Not Classifier Respiratory Sensitization: Not Classifier Carcinogenicity: Not Classifier Carcinogenicity: Not Classifier Target Organ Systemic Toxicity - St Target Organ Systemic Toxicity - Ri Aspiration Toxicity: Not Classifier	Not Classified d assified fied ified ingle Exposure: Not Classified epeated Exposure: Not Classified
GHS Label elements, including preca	
Pictogram: Harmful / Irritant	
Signal Word: Warning Hazard Statements	
H303 - May be harmful if swallowed H313 - May be harmful in contact w	
H335 + H336 - May cause respiratory	y irritation, and drowsiness or dizziness.
Precautionary Statements P102 - Keep out of reach of childre	en.
P102 - Keep out of reach of childro P210 - Keep away from heat/sparks/o	open flames/hot surfaces No smoking
P102 - Keep out of reach of childre	open flames/hot surfaces No smoking eceiving equipment
P102 - Keep out of reach of childro P210 - Keep away from heat/sparks/ P240 - Ground/Bond container and r P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin	open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing.
P102 - Keep out of reach of childry P102 - Keep away from heat/sparks/v P240 - Ground/Bond container and ry P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin, P264 - Wash hands thoroughly after P280 - Wear protective gloves/protr P301 + P310 - IF SWALLOWED: Immedia P305 + P351 + P338 - IF IN EYES: R Remove contact lenses, if present a P362 - Take off contaminated cloth	open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse.
P102 - Keep out of reach of childre P210 - Keep away from heat/sparks/ P240 - Ground/Bond container and re P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin P264 - Wash hands thoroughly after P280 - Wear protective gloves/prote P301 + P310 - IF SWALLOWED: Immedia P305 + P351 + P338 - IF IN EYES: R: Remove contact lenses, if present a	open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse. se skin dryness or cracking 1272/2008
P102 - Keep out of reach of childre P102 - Keep away from heat/sparks/ P240 - Ground/Bond container and re P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin P264 - Wash hands thoroughly after P280 - Wear protective gloves/prote P301 + P310 - IF SWALLOWED: Immedia P305 + P351 + P338 - IF IN EYES: R Remove contact lenses, if present a P362 - Take off contaminated cloth EUH066 - Repeated exposure may cause Precautionary Statements - EU No. S SUMMARY OF ACUTE HAZARDS	open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse. se skin dryness or cracking 1272/2008
102 - Keep out of reach of childre 210 - Keep away from heat/sparks/c 210 - Ground/Bond container and rr 261 - Avoid breathing dust/fume/g 262 - Do not get in eyes, on skin 264 - Wash hands thoroughly after 280 - Wear protective gloves/prott 301 + P310 - IF SWALLOWED: Immedia 305 + P351 + P338 - IF IN EYES: R emove contact leness, if present a 362 - Take off contaminated cloth: UH066 - Repeated exposure may cause recautionary Statements - EU No. UMMARY OF ACUTE HAZARDS Irritation to eyes, nose and thin other CNS effects at high conce OUTE OF EXPOSURE, SIGNS AND SYMPTO	open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse. se skin dryness or cracking 1272/2008
 P102 - Keep out of reach of childred P210 - Keep away from heat/sparks/ P240 - Ground/Bond container and region P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin P264 - Wash hands thoroughly after P280 - Wear protective gloves/prote P301 + P310 - IF SWALLOWED: Immedia P305 + P351 + P338 - IF IN EYES: Remove contact lenses, if present a P362 - Take off contaminated cloth P466 - Repeated exposure may cause Precautionary Statements - EU No. SUMMARY OF ACUTE HAZARDS Irritation to eyes, nose and the other CNS effects at high concert ROUTE OF EXPOSURE, SIGNS AND SYMPTO INHALATION Nasal and respiratory irritation CNS depression and unconsciousness 	open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse. se skin dryness or cracking 1272/2008
 P102 - Keep out of reach of childred P210 - Keep away from heat/sparks// P240 - Ground/Bond container and red P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin P264 - Wash hands thoroughly after P280 - Wear protective gloves/prot P301 + P310 - IF SWALLOWED: Immedia P305 + P351 + P338 - IF IN EYES: Remove contact lenses, if present a P362 - Take off contaminated clothat EUH066 - Repeated exposure may caus Precautionary Statements - EU No. SUMMARY OF ACUTE HAZARDS Irritation to eyes, nose and the other CNS effects at high concer ROUTE OF EXPOSURE, SIGNS AND SYMPTO INHALATION Nasal and respiratory irritation CNS depression and unconsciousness EYE CONTACT Watering, blurred vision, inflag corneal injury. 	open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse. se skin dryness or cracking 1272/2008
P102 - Keep out of reach of childre P102 - Keep away from heat/sparks/ P240 - Ground/Bond container and re P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin P264 - Wash hands thoroughly after P280 - Wear protective gloves/prote P301 + P310 - IF SWALLOWED: Immedia P305 + P351 + P338 - IF IN EYES: R Remove contact lenses, if present a P362 - Take off contaminated cloth EUH066 - Repeated exposure may cause Precautionary Statements - EU No. 3 SUMMARY OF ACUTE HAZARDS Irritation to eyes, nose and thi other CNS effects at high concer ROUTE OF EXPOSURE, SIGNS AND SYMPTO INHALATION Nasal and respiratory irritation CNS depression and unconsciousness EYE CONTACT	open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse. se skin dryness or cracking 1272/2008
P102 - Keep out of reach of childre P102 - Keep away from heat/sparks// P240 - Ground/Bond container and re P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin P264 - Wash hands thoroughly after P280 - Wear protective gloves/prote P301 + P310 - IF SWALLOWED: Immedia P305 + P351 + P338 - IF IN EYES: R: Remove contact lenses, if present a P362 - Take off contaminated cloth EUH066 - Repeated exposure may cause Precautionary Statements - EU No. SUMMARY OF ACUTE HAZARDS Irritation to eyes, nose and the other CNS effects at high concer ROUTE OF EXPOSURE, SIGNS AND SYMPTO INHALATION Nasal and respiratory irritation CNS depression and unconsciousness EYE CONTACT Watering, blurred vision, inflam corneal injury. SKIN CONTACT Irritation, dermatitis. INGESTION	<pre>open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse. se skin dryness or cracking 1272/2008 </pre>
P102 - Keep out of reach of childre P102 - Keep away from heat/sparks/ P240 - Ground/Bond container and re P261 - Avoid breathing dust/fume/g P262 - Do not get in eyes, on skin, P264 - Wash hands thoroughly after P280 - Wear protective gloves/prote P301 + P310 - IF SWALLOWED: Immedia P305 + P351 + P338 - IF IN EYES: R. Remove contact lenses, if present : P362 - Take off contaminated cloth: EUH066 - Repeated exposure may cau: Precautionary Statements - EU No. : SUMMARY OF ACUTE HAZARDS Irritation to eyes, nose and thi other CNS effects at high concer ROUTE OF EXPOSURE, SIGNS AND SYMPTO INHALATION Nasal and respiratory irritation CNS depression and unconsciousness EYE CONTACT Irritation, dermatitis. INGESTION Nausea, vomiting; CNS depression liver and peritoneal wall; lung con SUMMARY OF CHRONIC HAZARDS Skin irritation and dermatitis. MEDICAL CONDITIONS AGGRAVATED BY EX	<pre>open flames/hot surfaces No smoking eceiving equipment as/mist/vapors/spray , or on clothing. handling. ective clothing/eye protection/face protection. ately call a POISON CENTER or doctor/physician inse cautiously with water for several minutes and easy to do. Continue rinsing. ing and wash before reuse. se skin dryness or cracking 1272/2008</pre>

MATERIAL SAFETY DATA SHEET

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NGREDIENT: Diaceto ERCENTAGE BY WEIGH AS NUMBER: 123-42- C# : 204-626-7	one Alcohol HT: 20-30	FORMATION ON INGREDIENTS
	- 2	
	4 FIRST AID MEAS	URES
If INHALED:	immediately. Give	sure, remove victim to fresh air oxygen or artificial respiration as rgency medical attention. Prompt action
If on SKIN:	medical attention.	water. If irritation occurs, seek
If in EYES:	Flush eyes with lar Get medical attenti	ge amounts of water for 15 minutes. on.
If SWALLOWED:	vomiting at the ins anything by mouth t	a physician immediately. Only induce truction of a physician. Never give o an unconscious person.
Section	5 FIRE FIGHTING	
XTINGUSING MEDIA Foam, dry chemid PECIAL FIRE FIGHT: (SCBA) and other possible (see Sé NUSUAL FIRE AND E2 Vapors heavier f	cal, carbon dioxide ING PROCEDURES: Wea r protective clothin ection 10). RPLOSION HAZARDS: C than air and may tra	or water fog. r self-contained breathing apparatus g. Hazardous decomposition products ombustible - moderate flash point. vel along the ground or to low spots
flashback. Burn pressure and rup	ning liquid may floa oture containers.	ce of ignition resulting in potential t on water. Heat may build up
Section	6 ACCIDENTAL REL	
TEPS TO BE TAKEN sources of ignit and to contain. air ventilation Wear protective	IN CASE MATERIAL IS tion. Use absorbent Ventilate area wit . Avoid flushing in clothing and respir	RELEASED OR SPILLED: Remove all materials to prevent footing hazard h natural or explosion-proof, forced to sewers, drains, waterways, and soil. atory protection during cleanup.
Section	7 HANDLING AND S	
observe all prod KEEP OUT OF REAG Section	ducts precautions. CH OF CHILDREN. ====================================	tain residues; treat as if full and Do not reuse empty containers. OLS/PERSONAL PROTECTION
INGREDIENT Diacetone Alcohol ACGIH TLV OSHA PEL	UNITS 50 ppm 50 ppm	
RESPIRATORY PROTEC use NIOSH/MSHA : supplied air re: (RTILATION - LOCAI PECIAL: Explosion ECHANICAL (GENERAI DTHER: N/A ROTECTIVE GLOVES: PROTECTIVE GLOVES: YE PROTECTION: CH DTHER PROTECTIVE CI JORK/HYGIENIC PRACT areas thoroughly Launder contamin	TION (SPECIFY TYPE): approved air purifyi spirators. L EXHAUST: Acceptab n-proof equipment. L): Preferable Wear rubber gloves nemical splash goggl LOTHING OR EQUIPMENT TICES: Where use ca y before eating, dri nated clothing befor	es (ANSI Z-87.1 or equivalent) : Coveralls recommended. n result in skin contact, wash exposed nking, smoking, or leaving work area. e reuse.
	9 PHYSICAL AND C	HEMICAL PROPERTIES
BOILING POINT:		322 F (161 C) @ 760mm Hg
PECIFIC GRAVITY (H APOR PRESSURE (mm	,	1.38 0.3 @ 68 F (20 C)
ELTING POINT: APOR DENSITY (AIR		N/A 1.1
PPEARANCE/ODOR: OLUBILITY IN WATER	ETHYL ACETATE = 1): R: DMPOUNDS(VOC)Content	Yellow Paste/Mild Odor 23%
Theoretical Percer lash POINT .OWER EXPLOSION LIM	ntage By Weight):	23% or (317 g/L) 150 F (65 C) SETA CC N/D
JPPER EXPLOSION LIM	MIT	N/D ====================================
Section	10 STABILITY AND	
TABILITY: Stable		en flames, and strong oxidizing.
		Gaseous oxygen, strong oxidizing

	s in this product		SHA Lister carcinogen.
TOXICOLOGY DATA Ingredient Name			
Diacetone Alco	ohol Oral-Rat Inhalation-Human	LD50:4000 mg/kg TCLo: 100 ppm	
Secti	on 12 Ecologica	l Information	
ECOLOGICAL DATA Ingredient Name			
	WATERFOWL TOXICI BOD AQUATIC TOXICITY		N/A N/A N/A N/A
	on 13 DISPOSAL tion: Non-regulat		
Waste Classifica Disposal Method: Waste from this Resource Conse accordance wit	tion: Non-regulat Approved la product is not con rvation and Recove h Federal, State,	ed solid waste ndfill sidered hazardous as ry Act (RCRA) 40 CFR and Local regulation	defined under the 261. Dispose of in regarding pollution.
Waste Classifica Disposal Method: Waste from this Resource Conse accordance wit Secti DOT: DOT: DCEAN (IMDG): AIR (IATA): WHMIS (CANADA):	tion: Non-regulat Approved la product is not con rvation and Recove h Federal, State, en 14 TRANSPORT Non-Regulated Non-Regulated Non-Regulated Non-Regulated	ed solid waste ndfill sidered hazardous as ry Act (RCRA) 40 CFR and Local regulation ====================================	261. Dispose of in regarding pollution.
Waste Classifica Disposal Method: Waste from this Resource Conse accordance wit Section DOT: OCEAN (IMDG): AIR (IATA): WHMIS (CANADA):	tion: Non-regulat Approved la product is not con rvation and Recove h Federal, State, en 14 TRANSPORT Non-Regulated Non-Regulated Non-Regulated Non-Regulated	ed solid waste ndfill sidered hazardous as ry Act (RCRA) 40 CFR and Local regulation ATION INFORMATION	261. Dispose of in regarding pollution.
Waste Classifica Disposal Method: Waste from this Resource Conse accordance wit 	tion: Non-regulat Approved la product is not con rvation and Recove h Federal, State, on 14 TRANSPORT Non-Regulated Non-Regulated Non-Regulated Non-Regulated	ed solid waste ndfill sidered hazardous as ry Act (RCRA) 40 CFR and Local regulation ATION INFORMATION	261. Dispose of in regarding pollution.
Waste Classifica Disposal Method: Waste from this Resource Conse accordance wit Section DOT: OCEAN (IMDG): AIR (IATA): WHMIS (CANADA):	tion: Non-regulat Approved la product is not con rvation and Recove h Federal, State, on 14 TRANSPORT Non-Regulated Non-Regulated Non-Regulated Non-Regulated Non-Regulated on 15 REGULATOR	ed solid waste ndfill sidered hazardous as ry Act (RCRA) 40 CFR and Local regulation ATION INFORMATION	261. Dispose of in regarding pollution.

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001



SAFETY DATA SHEET

RECTORSEAL® NO.5® SPECIAL

Low-temperature, low-odor pipe thread sealant

Section 1 - Product and Company Information

Product Name	HMIS Codes	
Rectorseal [®] No.5 [®] Special	Health 1	I
Product Codes 26551, 26431, 26390, 26271, 26191, 26112	Flammability 1 Reactivity 0 PPI E) 3
Chemical Family Organic		
Use Pipe thread sealant		
Manufacturer's Name The RectorSeal Corporation 2601 Spenwick Drive	Emergency Telephon	e No
Houston, Texas 77055 USA		0 140

Date of Validation January 23, 2015

Date of Preparation October 10, 2012 mergency Telephone No. Chemtrec 24 Hours (800)-424-9300 USA (703)-527-3887 International

Technical Service Telephone No. (800)-231-3345 or (713)-263-8001

Section 2 - Hazards Identification

EMERGENCY OVERVIEW

OSHA Hazards

Target Organ Effect, Teratogen, Reproductive hazard

Target Organs

Liver, Kidney, Testes.

GHS CLASSIFICATION

Eye irritation (Category 2B) Reproductive toxicity (Category 2)

RECTORSEAL® NO.5® SPECIAL

GHS Label elements, including precautionary statements



GHS08: Health Hazard/ Target Organ Toxicity Signal word: **Warning**

Hazard statement(s)

H320 - Causes eye irritation.

H361 - Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

P281 - Use personal protective equipment as required. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Summary Of Acute Hazards

Irritation to eyes, nose and throat; drowsiness, narcosis, tremors and other CNS effects at high concentration.

Route Of Exposure, Signs And Symptoms

INHALATION

Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression and unconsciousness.

EYE CONTACT

Watering, blurred vision, inflammation and irritation which can result in corneal injury.

SKIN CONTACT

Irritation, dermatitis.

INGESTION

Nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.

SUMMARY OF CHRONIC HAZARDS

Skin irritation and dermatitis. Possible liver and kidney damage.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver or kidneys may have increased susceptibility to excessive exposures.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient:	Diethylene Glycol Methyl Ether
Percentage by weight:	16 Max
CAS Number:	111-77-3
EC#:	203-906-6

RECTORSEAL® NO.5® SPECIAL

Section 4 - First Aid Measures

If inhaled:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on skin:	Immediately flush with large amounts fo water for at least 15 minutes. Get prompt medical attention.
If in eyes:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If swallowed:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 - Fire Fighting Measures

Extinguishing Media

Foam, dry chemical, carbon dioxide or water fog.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).

Unusual Fire And Explosion Hazards: None known.

Section 6 - Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 - Handling and Storage

Precautions To Be Taken In Handling And Storing: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames.

Other Precautions: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN.

RECTORSEAL® NO.5® SPECIAL

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Units
Diethylene Glycol Methyl Ether	
ACGIH TLV:	N/D
OSHA PEL:	N/D

Respiratory Protection (Specify Type): In confined poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air purifying or supplied air respirators.

Ventilation - Local Exhaust: Acceptable

Special: Explosion-proof equipment.

Mechanical (General): Preferable

Other: N/A

Protective Gloves: Wear rubber gloves.

Eye Protection: Chemical splash goggles (ANSI Z-87.1 or equivalent)

Other Protective Clothing Or Equipment: Coveralls recommended.

Work/Hygienic Practices: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling point: Specific gravity (H20 = 1):	374°F (190°C) @ 760 mmHg 1.40
Vapor pressure (mmHg):	0.25 @ 77°F (20°C)
Melting point:	N/A
Vapor Density (Air = 1):	>1
Evaporation rate (Ethyl Acetate = 1):	<1
Appearance/Odor:	Gray paste/Mild odor
Solubility in water:	16%
Volatile Organic Compounds (VOC) Content (theoretical percentage by weight):	16% or (160 g/L)
Flash point:	208°F (98°C) SETA CC
Lower explosion limit:	N/D
Upper explosion limit:	N/D

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RECTORSEAL® NO.5® SPECIAL

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Heat, sparks, open flames, and strong oxidizing. Temperatures above 500°F (260°C).

Incompatibility (Materials To Avoid): Gaseous oxygen, strong oxidizing materials, molten alkali metals.

Hazardous Decomposition Products: CO, CO, and fragmented hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGY INFORMATION

Chronic Health Hazards

No ingredient in this product is an IARC, NTP or OSHA Lister carcinogen.

Toxicology Data

Diethylene Glycol Methyl Ether

Oral-Rat LD50: 5500 mg/kg Inhalation-Rat LC50: N/D

Section 12 - Ecological Information

Ecological Data

Ingredient Name: **Diethylene Glycol Methyl Ether** Food Chain Concentration Potential N/A Waterfowl Toxicity N/A BOD 34% Aquatic Toxicity N/A

Section 13 - Disposal Considerations

Waste Classification: Non-regulated solid waste

Disposal Method: Approved landfill

Waste from this product is not considered hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with federal, state, and local regulation regarding pollution.

RECTORSEAL® NO.5® SPECIAL

Section 14 - Transportation Information

DOT:	Non-regulated
Ocean (IMDG):	Non-regulated
Air (IATA):	Non-regulated
WHMIS (Canada):	Non-regulated

Section 15 - Regulatory Information

Regulatory Data

Ingredient Name:	Diethylene Glycol Methyl Ether
SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Section 16 - O ther Information

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made.

Consult RectorSeal for further information: (713) 263-8001

Safety Data Sheet



1. Identification ROHPER LSPR 6PK FLAT COLD GALV **Product Name: Revision Date:** 11/5/2018 COMPOUND V2185838 **Product Identifier:** Supercedes Date: 11/5/2018 **Recommended Use:** Galvanizing Compound/Aerosol Rust-Oleum Corporation **Rust-Oleum Corporation** Supplier: Manufacturer: 11 Hawthorn Parkway 11 Hawthorn Parkway Vernon Hills, IL 60061 Vernon Hills, IL 60061 USA USA Rust-Oleum Canada (ROCA) 200 Confederation Parkway Concord, ON L4K 4T8 Canada Emergency Phone: 800-387-3625 Preparer: **Regulatory Department Emergency Telephone:** 24 Hour Hotline: 847-367-7700

2. Hazard Identification

Classification

Symbol(s) of Product



Signal Word Danger

Possible Hazards

17% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS		
Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Compressed Gas	H280	Contains gas under pressure; may explode if heated.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 1	H372	Causes damage to organs through prolonged or repeated exposure.
Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
GHS LABEL PRECAUTIONARY STAT	EMENIS	
P210		from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	Keep away	from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. ay on an open flame or other ignition source.
P210	Keep away Do not spra	
P210 P211	Keep away Do not spra Do not pier	ay on an open flame or other ignition source.

P201 Obtain special instructions before use.

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, regional and national regulations.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

GHS SDS PRECAUTIONARY STATEMENTS

P270

Do not eat, drink or smoke when using this product.

3. Composition / Information On Ingredients

HAZARDOUS SUBSTANCES

<u>Chemical Name</u>	CAS-No.	<u>Wt.%</u>	GHS Symbols	GHS Statements
Zinc	7440-66-6	48	GHS07	H302
n-Butyl Acetate	123-86-4	20	GHS02-GHS07	H226-336
Propane	74-98-6	10	GHS04	H280
Hydrotreated Light Distillate	64742-47-8	5.7	GHS08	H304
n-Butane	106-97-8	4.8	GHS04	H280
Xylenes (o-, m-, p- isomers)	1330-20-7	3.6	GHS02-GHS07	H226-315-319-332
Zinc Oxide	1314-13-2	1.7	Not Available	Not Available
Stoddard Solvent	8052-41-3	1.6	GHS08	H304-372
Ethylbenzene	100-41-4	0.8	GHS02-GHS07- GHS08	H225-304-332-351-373

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. No unusual fire or explosion hazards noted. Keep containers tightly closed.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

Advice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Zinc	7440-66-6	50.0	N.E.	N.E.	N.E.	N.E.
n-Butyl Acetate	123-86-4	20.0	50 ppm	150 ppm	150 ppm	N.E.
Propane	74-98-6	15.0	N.É.	N.E.	1000 ppm	N.E.
Hydrotreated Light Distillate	64742-47-8	10.0	N.E.	N.E.	N.É.	N.E.
n-Butane	106-97-8	5.0	N.E.	1000 ppm	N.E.	N.E.
Xylenes (o-, m-, p- isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Zinc Oxide	1314-13-2	5.0	2 mg/m3	10 mg/m3	5 mg/m3	N.E.
Stoddard Solvent	8052-41-3	5.0	100 ppm	N.E.	500 ppm	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Relative Density:	1.322	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-octanol/	
Decompostion Temp., °C:	N.D.	water:	N.D.
Boiling Range, °C:	-37 - 204	Explosive Limits, vol%:	0.8 - 9.5
Flammability:	Supports Combustion	Flash Point, °C:	-96
Evaporation Rate:	Faster than Ether	Auto-ignition Temp., °C:	N.D.
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. Allergic reactions are possible.

EFFECTS OF OVEREXPOSURE - INHALATION: High gas, vapor, mist or dust concentrations may be harmful if inhaled. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	<u>Chemical Name</u>	<u>Oral LD50</u>	Dermal LD50	Vapor LC50
7440-66-6	Zinc	630 mg/kg Rat	N.E.	N.E.
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
1314-13-2	Zinc Oxide	>5000 mg/kg Rat	N.E.	N.E.
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat

N.E. - Not Established

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Acute Toxicity (any route of exposure), Specific target organ toxicity (single or repeated exposure)

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	<u>CAS-No.</u>
Zinc	7440-66-6
Xylenes (o-, m-, p- isomers)	1330-20-7
Zinc Oxide	1314-13-2
Ethylbenzene	100-41-4

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

California Proposition 65:

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

16. Other Information

HMIS RA ⁻ Health:	TINGS 2*	Flammability:	4	Physical Hazard:	0	Personal Protection:	х	
NFPA RA Health:	TINGS 2	Flammability:	4	Instability	0			
Maximum	Increme	ntal Reactivity	0.68					
SDS REVI	SION D	ATE:	11/5/2018					
REASON FOR REVISION:			Substance and/or Product Properties Changed in Section(s): 01 - Identification					

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

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Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

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Revision: 2/25/2013

1.1 Pr	oduct identifier
• CAS N 68410	
 1.3 De Manul Zippo 33 Bar Bradfo 	cation of the substance / the preparation Fuel tails of the supplier of the Safety Data Sheet facturer/Supplier: Manufacturing Company bour Street rd, PA 16701 : 814-368-2700
1.4 En Chem	er information obtainable from: Product Safety Department nergency telephone number: Fel Inc. 55-3924, +1 (813)248-0585
) Ната	rds identification
· 2.1 Cla	assification of the substance or mixture fication according to Regulation (EC) No 1272/2008
· 2.1 Classi	assification of the substance or mixture
· 2.1 Classi	assification of the substance or mixture fication according to Regulation (EC) No 1272/2008 GHS02 flame
2.1 Classi Classi Flam.	Assification of the substance or mixture fication according to Regulation (EC) No 1272/2008 GHS02 flame Liq. 2 H225 Highly flammable liquid and vapour.
• 2.1 Classi • Classi Flam. Asp. T	Assification of the substance or mixture fication according to Regulation (EC) No 1272/2008 GHS02 flame Liq. 2 H225 Highly flammable liquid and vapour. GHS08 health hazard
• 2.1 Classi • Classi Flam. Asp. T	 assification of the substance or mixture fication according to Regulation (EC) No 1272/2008 GHS02 flame Liq. 2 H225 Highly flammable liquid and vapour. GHS08 health hazard ox. 1 H304 May be fatal if swallowed and enters airways. fication according to Directive 67/548/EEC or Directive 1999/45/EC
· 2.1 Classi Classi Flam. Asp. T · Classi Xr R65:	 assification of the substance or mixture fication according to Regulation (EC) No 1272/2008 GHS02 flame Liq. 2 H225 Highly flammable liquid and vapour. GHS08 health hazard ox. 1 H304 May be fatal if swallowed and enters airways. fication according to Directive 67/548/EEC or Directive 1999/45/EC harmful
 2.1 Classi Classi Flam. Asp. T Classi Xr R65: F; R11: Inform The cl contain 	 assification of the substance or mixture fication according to Regulation (EC) No 1272/2008 GHS02 flame Liq. 2 H225 Highly flammable liquid and vapour. GHS08 health hazard ox. 1 H304 May be fatal if swallowed and enters airways. fication according to Directive 67/548/EEC or Directive 1999/45/EC h; Harmful Harmful: may cause lung damage if swallowed.
 2.1 Classi Classi Flam. Asp. T Classi Asp. T Classi Xr R65: F; R11: Inform The cl contain less th 2.2 La 	 assification of the substance or mixture fication according to Regulation (EC) No 1272/2008 GHS02 flame Liq. 2 H225 Highly flammable liquid and vapour. GHS08 health hazard ox. 1 H304 May be fatal if swallowed and enters airways. fication according to Directive 67/548/EEC or Directive 1999/45/EC armful Harmful: may cause lung damage if swallowed. Highly flammable. Highly flammable. astion concerning particular hazards for human and environment: assification as a carcinogen or mutagen need not apply if it can be shown that the substans less than 0,1 % w/w benzene (CAS No 71-43-2 / EINECS No 200-753-7). This product contains

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	(Contd. of page
Hazard pictogi	rams
GHS02 GHS08	
Signal word D	•
	nining components of labelling:
	oleum), light distillate hydrotreating process, low-boiling
Hazard statem	
	mmable liquid and vapour.
	atal if swallowed and enters airways.
	ofessional users.
Precautionary	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P3	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rin
	skin with water/shower.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/internation
	regulations.
Hazard descrip	
WHMIS-symbo	
B2 - Flammable	e liquid
\frown	
NFPA ratings (
	Ith = 1
Fire	
Rea	ctivity = 0
	(Contd. on page

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· HMIS-ratings (scale 0 - 4)

HEALTH11Health = *1FIRE3Fire = 3REACTIVITY0Reactivity = 0

2.3 Other hazards

\cdot Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

· 3.1 Substances

· CAS No. Description

68410-97-9 Distillates (petroleum), light distillate hydrotreating process, low-boiling

· Dangerous components: N/A

Additional information:

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (CAS No 71-43-2 / EINECS No 200-753-7). This product contains less than 0.1% benzene by weight and is not classified as carcinogenic.

4 First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Hazards Danger of pulmonary oedema.

 \cdot 4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs.

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(Contd. of page 3)

5 Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

 \cdot 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges. 7.2 Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Store in a cool location.

- **Information about storage in one common storage facility:** Store away from oxidizing agents. Store away from foodstuffs.
- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

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Protect from heat and direct sunlight.

(Contd. of page 4)

• 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

68410-97-9 Distillates (petroleum), light distillate hydrotreating process, low-boiling

PEL (USA) Short-term value: 5 mg/m³ As Mist TLV (USA) Short-term value: 5 mg/m³ Inhalable Fraction

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

- Wash hands before breaks and at the end of work.
- · Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands: Not required.
- Material of gloves Not required.
- · Eye protection:



Safety glasses

9.1 Information on basic physical a General Information	nd chemical properties	
Appearance:		
Form:	Liquid	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	45°C (113 °F)	

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	(Contd. of page
Flash point:	- 7°C (20°F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosiv air/vapour mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20°C:	0,71 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate at 20°C	> 1 (Water = 1)
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Segregation coefficient (n-octanol/w	rater): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
9.2 Other information	No further relevant information available.

10 Stability and reactivity

10.1 Reactivity
10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions Forms explosive gas mixture with air. Can react violently with oxygen rich (oxidizing) material. Danger of Explosion. Flammable vapour-air mixtures may develop if stored in large receptacles and above room temperature.
10.4 Conditions to avoid Keep ignition sources away - Do not smoke. Store away from oxidizing agents.
10.5 Incompatible materials: No further relevant information available. (Contd. on page 7)

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Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

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· 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- 11.1 Information on toxicological effects • Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information: Vapours have narcotic effect.

12 Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability Not easily biodegradable
- 12.3 Bioaccumulative potential May be accumulated in organism
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · 14.1 UN-Number
- DOT, ADR, IMDG, IATA

UN1268

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Trade name: Ronsonol Lighter Fluid	
	(Contd. of page 7)
 · 14.2 UN proper shipping name · DOT, IMDG, IATA · ADR 	PETROLEUM DISTILLATES, N.O.S. 1268 PETROLEUM DISTILLATES, N.O.S.
· 14.3 Transport hazard class(es)	
· DOT	
· Class	3 Flammable liquids.
· Label	3
· ADR	
*	
· Class	3 (F1) Flammable liquids. 3
	3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
 · 14.4 Packing group · DOT, ADR, IMDG, IATA 	II
 14.5 Environmental hazards: Marine pollutant: 	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
 Danger code (Kemler): EMS Number: 	33 F-E <u>,S-E</u>
• 14.7 Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	
· Transport/Additional information:	
· ADR · Tunnel restriction code	D/E
· UN "Model Regulation":	UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II

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	1 Safety, health and environmental regulations/legislation specific for the substance or mixtu ited States (USA) RA
See	ction 355 (extremely hazardous substances):
Sul	bstance is not listed.
See	ction 313 (Specific toxic chemical listings):
Sub	bstance is not listed.
TS	CA (Toxic Substances Control Act):
Sub	bstance is listed.
Pro	oposition 65 (California):
Ch	emicals known to cause cancer:
Sub	bstance is not listed.
Ch	emicals known to cause reproductive toxicity for females:
Sub	bstance is not listed.
Ch	emicals known to cause reproductive toxicity for males:
Sub	bstance is not listed.
Ch	emicals known to cause developmental toxicity:
Sub	bstance is not listed.
Ca	rcinogenic Categories
EP.	A (Environmental Protection Agency)
Sub	bstance is not listed.
TL	V (Threshold Limit Value established by ACGIH)
Sub	bstance is not listed.
NIC	DSH-Ca (National Institute for Occupational Safety and Health)
Sub	bstance is not listed.
os	HA-Ca (Occupational Safety & Health Administration)
	bstance is not listed.
Ca	nada
Ca	nadian Domestic Substances List (DSL)
Sub	bstance is listed.
Ca	nadian Ingredient Disclosure list (limit 0.1%)
Sub	bstance is not listed.
	nadian Ingredient Disclosure list (limit 1%) redients are listed as required.
Sul	bstance is not listed.

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(Contd. of page 9) • **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of TransportAssociation GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Workplace Hazardous Materials Information System (Canada)

Material Safety Data Sheet

24 Hour Assistance: 1-847-367-7700 Rust-Oleum Corp. www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name: Identification Number:	Rust-Oleum High Performance Industria Enamel Aerosol Topcoats (Hard Hat) V2123838, V2134838, V2147838, V2155838, V2156838, V2167838, V2170838, V2171838, V2174838, V2175838, V2178838, V2174838, V2183838, V2184838, V2179838, V2124838, V2125838, V2188838, V2137838, V2138838, V2143838, V214838, V2163838, V2143838, V2148838, V2163838, V2164838, V2177838, V2187838, V2190838, V2192838, V2196838, 209567	l Revision Date:	04/05/2006
Product Use/Class: Supplier: Preparer:	Topcoats/Aerosol Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA Regulatory Department	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Tha	nACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Acetone	67-64-1	30.0	500 PPM	750 PPM	750 PPM	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0	1000 PPM	N.E.	1000 PPM	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Magnesium Silicate	14807-96-6	15.0	10 mg/m3	N.E.	15 mg/m3	N.E.
N-Butyl Acetate	123-86-4	10.0	150 PPM	200 PPM	150 PPM	N.E.
Xylene	1330 -20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
Methyl Ethyl Ketone	78-93-3	10.0	200 PPM	300 PPM	200 PPM	N.E.
Stoddard Solvents	8052 -41 -3	5.0	100 PPM	N.E.	500 PPM	N.E.
Ethylene Glycol Monobutyl Ether	· 111-76-2	5.0	20 PPM	N.E.	50 PPM	N.E.
Toluene	108-88-3	5.0	50 PPM	150 PPM	200 PPM	300 PPM
Ethylbenzene	100-41 -4	5.0	100 PPM	125 PPM	100 PPM	N.E.
Aromatic Hydrocarbon	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 PPM	N.E.	N.E.	N.E.
Pigment Black 7	1333 -86 -4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Pigment Yellow 17	4531 -49-1	5.0	2 mg/m3	N.E.	5 mg/m3	N.E.
Pigment Violet 32	12225-08-0	1.0	N.E.	N.E.	N.E.	N.E.
Pigment Red 122	980-26-7	1.0	15mg/m3	N.E.	5mg/m3	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Extremely flammable liquid and vapor. Contents Under Pressure. Harmful if swallowed.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May be harmful if absorbed through skin. Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e,g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to toluene in laboratory animals has been associated with liver abnormalities. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.

Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Govermental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F (Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 % UPPER EXPLOSIVE LIMIT : 32.5 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID

AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Use only in a well-ventilated area. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling. Wash hands before eating.

Storage: Contents under pressure. Do not expose to heat or store above 120 ° F. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:

-34 - 900 F

Vapor Density:

Odor: Appearance: Solubility in H2O: Slight Freeze Point: ND Vapor Pressure: ND Physical State: Liquid

Solvent-like Liquid

Odor Threshold: Evaporation Rate:

Specific Gravity: PH:

ND Faster than Ether

0.8660 ND

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name Acetone Liquefied Petroleum Gas Titanium Dioxide Magnesium Silicate N-Butyl Acetate Xvlene Methyl Ethyl Ketone Stoddard Solvents Ethylene Glycol Monobutyl Ether Toluene Ethylbenzene Aromatic Hydrocarbon 1,2,4-Trimethylbenzene Pigment Black 7 Pigment Yellow 17 Pigment Yellow 17	LD50 N.D. N.D. >7500 mg/kg (ORAL, RAT) N.D. 13100 mg/kg (ORAL, RAT) N.D. N.D. 1519 mg/kg (ORAL, MOUSE N.D. 3500 mg/kg (ORAL, RAT) N.D. >8000 mg/kg (ORAL, RAT) N.D. >8000 mg/kg (ORAL, RAT) N.D.	N.D. N.D. 18000 mg/m3 (RAT, 4 HR) N.D. N.D.
Pigment Yellow 17 Pigment Violet 32	N.D. >10000 mg/kg (ORAL, RAT)	
Pigment Red 122	N.D.	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do

Section 14 - Transportation Information

DOT Proper Shipping Name:	Aerosol
DOT Technical Name:	
DOT Hazard Class:	2.1
DOT UN/NA Number:	UN1950

Packing Group:---Hazard Subclass:---Resp. Guide Page:126

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylene Glycol Monobutyl Ether	111-76-2
Toluene	108-88-3
Ethylbenzene	100-41-4
1,2,4-Trimethylbenzene	95-63-6

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name

Alkyd Resin

CAS Number MIXTURE

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name Alkyd Resin Barium Sulfate Calcium Carbonate Yellow Iron Oxide CAS Number MIXTURE 7727-43-7 1317-65-3 51274-00-1

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2

Flammability: 4

Reactivity: 0

Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/I:

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.



SDS Revision Date: 01/07/2018

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Product Identity Alternate Names

SAF-T-EZE REGULAR ANTI-SEIZE

Part Numbers: 80102, 80112, 80122,80125, 80127, 80137, 80153, 80155, 80157, 80158, 80160, 80161, 80165, 80178, 80189, 80199 Product Type: Lubricating Grease

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Lubricating Grease
Application Method	See Technical Data Sheet.
1.3. Details of the supplier of the safety data sheet	
Company Name	SAF-T-LOK International Corporation
	300 EISENHOWER LANE NORTH
	LOMBARD, IL 60148
Emergency	
CHEMTREC (USA)	(800) 424-9300

CHEMIKEC (USA)	(000) 424-9300
24 hour Emergency Telephone No.	(703) 527-3887
Customer Service: SAF-T-LOK International	(630) 495-2001
Corporation	

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Aquatic Chronic 2;H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



H411 Toxic to aquatic life with long lasting effects.



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[Prevention]:

P273 Avoid release to the environment. [Response]:

P391 Collect spillage. [Storage]: No GHS storage statements [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Petroleum distillates, hydrotreated heavy napthenic CAS Number: 0064742-52-5	50 - 75	Acute Tox. 4;H312	[1]
Graphite CAS Number: 0007782-42-5	10 - 25		[1][2]
Copper CAS Number: 0007440-50-8	10-25		[1][2]
Zinc oxide CAS Number: 0001314-13-2	1.0 - 10	Aquatic Acute 1;H400 Aquatic Chronic 1;H410	[1][2]
Aluminum CAS Number: 0007429-90-5	1.0-10		[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.



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	Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview Skin Contact: Usually no effect, however, as with any chemical, prolonged, excessive, or repeated exposure may cause mild to moderate skin irritation, exhibited by redness, drying and cracking of unprotected skin.

Eye Contact: May irritate with slight pain and redness.

Respiratory/ Inhalation: Usually none, however, as with any chemical product, some irritation may occur.

Ingestion: Amounts transferred to mouth by fingers, etc, during normal operation should not cause injury.

Medical conditions generally aggravated by exposure: None known, however any chemical product may enhance allergies already present in certain individuals.

This product does not require exceptional labeling due to the evaluation procedure of the "General Classification guideline for preparations of the EU". See section 2 for further details.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, dry chemical

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: None

5.3. Advice for fire-fighters

Air mask and procedures for fighting chemical fires. Do not inhale gases.



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ERG Guide No.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Prevent material from entering floor drains, sewers, or any bodies of water. Scoop up into waste container or soak up with absorbent material. Store in a closed container until disposal.

7. Handling and storage

7.1. Precautions for safe handling

No special precautions necessary if used properly. Avoid breathing vapors. Wash hands thoroughly at mealtime and end of shift.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Isolated storage facility/ warehouse not required. Store in a cool, dry location (60-90°F) in a well-ventilated area in original container. Keep container tightly closed when not in use.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

None

8. Exposure controls and personal protection

8.1. Control parameters

Exposure			
CAS No.	Ingredient	Source	Value
		OSHA	TWA 5 mg/m3 (fume) TWA 15 mg/m3 (total dust) TWA 5 mg/m3 (resp dust)
0001314-13-2	Zinc oxide	ACGIH	TWA: 2 mg/m3STEL: 10 mg/m3 A1, 1, Revised 2003,
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OSHA	TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)



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0007429-90-5 Aluminum		ACGIH	TWA 1.0 mg/m3 Revised 2008
		NIOSH	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		Supplier	No Established Limit
		OSHA	TWA: mg/m ³ [Note: the PEL also applies to other copper compounds 9as Cu) except copper fume.]
0007440 50 9	Coppor	ACGIH	TWA: 0.2 mg/m ³ (fume) 1 mg/m ³ (dusts/mists)
0007440-50-8	0007440-50-8 Copper	NIOSH	TWA: 1 mg/m ³ [Note: The REL also applies to other copper compounds (as Cu) except copper fume.]
		Supplier	No Established Limit
		OSHA	TWA 15mg/m3 TWA mppcf
0007702 42 5		ACGIH	TWA 2 mg/m3
0007782-42-5	Graphite	NIOSH	TWA 2.5 mg/m3 (resp)
		Supplier	No Established Limit
		OSHA	No Established Limit
Petrole	Petroleum distillates, hydrotreated heavy	ACGIH	No Established Limit
0064742-52-5	napthenic	NIOSH	No Established Limit
		Supplie	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH.

Carcinogen Data			
CAS No.	Ingredient	Source	Value
0001314-13-2	Zinc oxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		OSHA	Select Carcinogen: No
0007429-90-5	Aluminum	NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		OSHA	Select Carcinogen: No
007440-50-8	Copper	NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		OSHA	Select Carcinogen: No
007782-42-5	Graphite	NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		OSHA	Select Carcinogen: No
0064742-52-5	Petrleum distillates, hydrotreated heavy napthenic	NTP	Known: No; Suspected: No
neavy haptienie		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

8.2. Exposure controls	
Respiratory	No respiratory protection required, but normal good ventilation is recommended. Forced ventilation may be required if concentrations exceed normal use exposure.
Eyes	Not required if application method is proper. Avoid contact with eyes.
Skin	Wear overalls to keep skin contact to a minimum. Use impermeable gloves (neoprene, butyl rubber, natural rubber), as necessary to avoid skin contact, as well as proper clothing



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or plastic apron. Wash hands before eating, drinking, or using restroom.

Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Eye wash stations should be located within 100 feet or 10 second walk of the work area. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Silver grey Paste

Appearance Odor Odor threshold рн International Corporation Melting point / freezing point **Boiling point Flash Point** Evaporation rate (Ether = 1) Flammability (solid, gas) Upper/lower flammability or explosive limits

Vapor pressure (Pa) (mm Hg.)	< 5 @ 30
Vapor Density	N/A
Specific Gravity	1.2
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Mea
Auto-ignition temperature	Not Mea
Decomposition temperature	Not Mea
Viscosity (cSt)	Not Mea
VOC %	<0.1% (o
% Solid	35-48%
9.2. Other information	

Mild/Inoffensive Not Measured Not Determined Not Determined >600° F (316°C) 410° F (210° C) (C.O.C.) Not Determined Not Applicable Lower Explosive Limit: N/A **Upper Explosive Limit: N/A** < 5 @ 30° F N/A .2 nsoluble Not Measured Not Measured Not Measured Not Measured <0.1% (cut)

9.2. Other information

DMSO extract IP346: Less than 3.0 wt% (mineral oil component only)

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur. 10.2. Chemical stability



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Stable under normal circumstances.
10.3. Possibility of hazardous reactions
No data available.
10.4. Conditions to avoid
Strong oxidizing agents
10.5. Incompatible materials
No data available.
10.6. Hazardous decomposition products
None

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Petroleum distillates, hydrotreated heavy napthenic – (64742-52-5)	5,000.00 Rat – Category: 5	No data available	2,000.00, Rabbit – Category: 4	No data available	No data available
Zinc oxide - (1314-13-2)	5,000.00, Rat -	No data	No data	2.50, Mouse -	No data
	Category: 5	available	available	Category: 4	available
Copper – (7440-50-8)	2,500.00, Rat -	>2,000.00, Rat -	No data	5.11, Rat -	No data
	Category: 5	Category: 5	available	Category: NA	available
Graphite - (7782-42-5)	No data	No data	No data	No data	No data
	available	available	available	available	available
Aluminum – (7429-90-5)	No data	No data	No data	No data	No data
	available	available	available	available	available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation		Not Applicable
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable



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STOT-repeated exposure	 Not Applicable
Aspiration hazard	 Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Zinc Oxide is toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Petroleum distillates, hydrotreated heavy napthenic – (64742-52-5)	5,000.00 Oncorhynchus mykiss	1,000.00 Daphnia Magna	1,000.00 (96 hr), Scenedesmus subspicatus
Zinc oxide - (1314-13-2)	1.10, Oncorhynchus mykiss	0.098, Daphnia magna	0.042 (72 hr), Pseudokirchneriella subcapitata
Graphite – (7782-42-5)	Not Available	Not Available	Not Availableq
Aluminum – (7429-90-5)	Not Available	Not Available	Not Available
Copper – (7440-50-8)	0.0103, Pimephales promelas	0.0025, Daphnia magna	0.018 (72 hr), Pseudokirchneriella subcapitata

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

DOT (Domestic Surface IMO / IMDG (Ocean Transportation) ICAO/IATA



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	Transportation)		
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Environmentally hazardous substance, liquid, N.O.S	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable DOT Label:	IMDG: 9 Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental ha	zards		
IMDG N	Marine Pollutant: Yes (Zinc o	oxide)	
14.6. Special precautio	ns for user		
1	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	Not Regulated
US EPA Tier II Hazards	Fire: No
	Sudden Release of Pressure: No
	Reactive: No
	Immediate (Acute): No
	Delayed (Chronic): No
EPCRA 311/312 Chemic Copper (5,000.00	
EPCRA 302 Extremely I (No Product Ingred	
EPCRA 313 Toxic Chen	nicals:
Zinc oxide	
Proposition 65 - Carcin (No Product Ingred	U ()
Proposition 65 - Develo (No Product Ingred	pmental Toxins (>0.0%): lients Listed)
Proposition 65 - Female (No Product Ingred	e Repro Toxins (>0.0%): lients Listed)
Proposition 65 - Male R (No Product Ingred	\cdot
(No Product Ingred Proposition 65 - Female (No Product Ingred Proposition 65 - Male R	lients Listed) Pero Toxins (>0.0%): lients Listed) epro Toxins (>0.0%):



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N.J. RTK Substances (>1%):

Zinc oxide Graphite Aluminum Copper

Penn RTK Substances (>1%):

Zinc oxide Graphite Aluminum Copper

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. SAF-T-LOK accepts no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H312 May be harmful in contact with skin.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information on this material safety data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user. SAF-T-LOK International Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of SAF-T-LOK International Corporation products.

End of Document



SAFETY DATA SHEET

1. Identification

Product identifier	SCRUBS® Hand Cleaner Towels
Other means of identification	
Part Number	42201, 42210, 42225, 42230, 42232, 42256, 42260, 42272, 42274, 42280
Recommended use	A deep cleaning hand cleaner towel designed for removing heavy dirt, oil and greases from hands.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier	/Distributor information
Manufacturer	
Company name	ITW Pro Brands
Address	805 E. Old 56 Highway
	Olathe, KS 66061
Country	(U.S.A.)
	Tel: +1 800-443-9536
In Case of Emergency	1-800-535-5053 (Infotrac)
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Alcohols, C12-15, ethoxylated		68131-39-5	1 - 3
Distillates Petroleum Hydrotreated Light		64742-47-8	1 - 3
d-limonene		5989-27-5	1 - 3
Neopentyl Glycol		126-30-7	0.1 - 1
Phenoxyethanol		122-99-6	0.1 - 1
Sodium Dodecanol Sulfosuccinate		577-11-7	0.1 - 1

4. First-aid measures

Inhalation Skin contact Move to fresh air. Call a physician if symptoms develop or persist. Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
The second second second second		

eanasie ennigenering meana	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Mechanically pick up material and place in a proper container for disposal. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7 Handling and storage	

7. Handling and storage

Precautions for safe handlingAvoid prolonged exposure. Observe good industrial hygiene practices.Conditions for safe storage,
including any incompatibilitiesStore in tightly closed container. Store away from incompatible materials (see Section 10 of the
SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

U.S OSHA Components	Туре	Value	Form Oil mist
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	PEL	5 mg/m3	
ACGIH Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	TWA	5 mg/m3	Oil mist
Biological limit values	No biological exposure limits noted t	for the ingredient(s).	
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

, ,	•		
Appearance			
Physical state	Liquid.		
Form	Liquid.		
Color	Colorless-blue / white		
Odor	Citrus		
Odor threshold	Not available.		
рН	6		
Melting point/freezing point	Not available.		
Initial boiling point and boiling	212 °F (100 °C)		
range			
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or expl			
Flammability limit - lower	Not available.		
(%)	Net evellette		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	Not available.		
Vapor density	> 1		
Relative density	Not available.		
Solubility(ies)			
Solubility (water)	Miscible.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	Not available.		
Other information			
Explosive properties	Not explosive.		
Oxidizing properties	Not oxidizing.		
Specific gravity	0.995		
VOC	0 % per US State and Federal Consumer Product Regulations		
10. Stability and reactivity			
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.		
Chemical stability	Material is stable under normal conditions.		

Material name: SCRUBS® Hand Cleaner Towels

Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.			
Conditions to avoid	Contact with incompatible materials.			
Incompatible materials	Strong oxidizing agents.			
Hazardous decomposition	ous decomposition Carbon oxides.			
products				
11. Toxicological information	tion			
Information on likely routes of e	exposure			
Inhalation	Prolonged inhalation may be harmful.			
Skin contact	No adverse effects due to skin contact are expected	ed.		
Eye contact	Direct contact with eyes may cause temporary irrit	ation.		
Ingestion	Expected to be a low ingestion hazard.			
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irrit	ation.		
Information on toxicological eff	ects			
Acute toxicity	Not expected to be acutely toxic.			
Components	Species	Test Results		
Alcohols, C12-15, ethoxylated (CA	AS 68131-39-5)			
Acute				
Dermal	_			
LD50	Rat	> 2000 mg/kg, 24 Hours		
Oral		5000 //		
LD50		> 5000 mg/kg		
Distillates Petroleum Hydrotreated Acute	d Light (CAS 64742-47-8)			
Dermal				
LD50	Rabbit	> 2000 mg/kg		
Inhalation		5.5		
Vapor				
LC50	Rat	> 0.1 mg/l, 8 Hours		
Oral				
LD50	Rat	> 5000 mg/kg		
d-limonene (CAS 5989-27-5)				
Acute				
Oral	5			
LD50	Rat	> 2000 mg/kg		
Neopentyl Glycol (CAS 126-30-7)				
<u>Acute</u> Oral				
LD50	Rat	> 6400 mg/kg		
Phenoxyethanol (CAS 122-99-6)				
Acute				
Dermal				
LD50	Rabbit	> 2200 mg/kg, 24 Hours		
Oral				
LD50	Rat	1400 mg/kg		
Sodium Dodecanol Sulfosuccinate	e (CAS 577-11-7)			
<u>Acute</u>				
Dermal LD50	Rabbit	> 10000 mg/kg 24 Hours		
		> 10000 mg/kg, 24 Hours		

42201, 42210, 42225, 42230, 42232, 42256, 42260, 42272, 42274, 42280 Version #: 02 Revision date: 06-03-2019 Issue date: 04-

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	1	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
d-limonene (CAS 5989-2 OSHA Specifically Regulate	7-5) 3 Not classifiable as to carcinogenicity to humans. d Substances (29 CFR 1910.1001-1053)	
Not listed.		
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
Further information	This product has no known adverse effect on human health.	
12. Ecological information	1	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the	

OTOXICITY	possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Components		Species	Test Results	
Alcohols, C12-15, ethoxyla	ited (CAS 6813	31-39-5)		
Aquatic				
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.37 - 0.43 mg/l, 48 hours	
Fish	LC50	Channel catfish (Ictalurus punctatus)	1.04 - 1.39 mg/l, 96 hours	
Distillates Petroleum Hydro	otreated Light (CAS 64742-47-8)		
Aquatic				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours	
d-limonene (CAS 5989-27	-5)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promelas)) 0.619 - 0.796 mg/l, 96 hours	
Phenoxyethanol (CAS 122	-99-6)			
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas)) 337 - 352 mg/l, 96 hours	
Sodium Dodecanol Sulfos	uccinate (CAS	577-11-7)		
Aquatic				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	20 - 40 mg/l, 96 hours	
rsistence and degradabilit	y No data is	available on the degradability of any ingredie	nts in the mixture.	
oaccumulative potential				
Partition coefficient n-oc	tanol / water (log Kow)		
d-limonene		4.232		
Phenoxyethanol	N I	1.16		
obility in soil	Not estab	lisnea.		

Material name: SCRUBS® Hand Cleaner Towels

42201, 42210, 42225, 42230, 42232, 42256, 42260, 42272, 42274, 42280 Version #: 02 Revision date: 06-03-2019 Issue date: 04-

Other adverse effects None known.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

General information

This material is not regulated by any mode of transportation.

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting) Not regulated.

inor regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	04-11-2019
Revision date	06-03-2019
Version #	02
Disclaimer	ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	Accidental release measures: Methods and materials for containment and cleaning up Physical & Chemical Properties: Multiple Properties Transport Information: Proper Shipping Name/Packing Group HazReg Data: International Inventories GHS: Classification



SAFETY DATA SHEET

1. Identification

Product identifier	SCRUBS® Hand Cleaner Towels	
Other means of identification		
Part Number	42201, 42210, 42225, 42230, 42232, 42256, 42260, 42272, 42274, 42280	
Recommended use	A deep cleaning hand cleaner towel designed for removing heavy dirt, oil and greases from hands.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	/Distributor information	
Manufacturer		
Company name	ITW Pro Brands	
Address	805 E. Old 56 Highway	
	Olathe, KS 66061	
Country	(U.S.A.)	
	Tel: +1 800-443-9536	
In Case of Emergency	1-800-535-5053 (Infotrac)	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The mixture does not meet the criteria for classification.	
Precautionary statement		
Prevention	Observe good industrial hygiene practices.	
Response	Wash hands after handling.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Alcohols, C12-15, ethoxylated		68131-39-5	1 - 3
Distillates Petroleum Hydrotreated Light		64742-47-8	1 - 3
d-limonene		5989-27-5	1 - 3
Neopentyl Glycol		126-30-7	0.1 - 1
Phenoxyethanol		122-99-6	0.1 - 1
Sodium Dodecanol Sulfosuccinate		577-11-7	0.1 - 1

4. First-aid measures

Inhalation Skin contact Move to fresh air. Call a physician if symptoms develop or persist. Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Here with a last the second second second	Do not use water ist op on extinguisher, op this will append the fire	

eanasie ennigenering meana	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Mechanically pick up material and place in a proper container for disposal. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7 Handling and storage	

7. Handling and storage

Precautions for safe handlingAvoid prolonged exposure. Observe good industrial hygiene practices.Conditions for safe storage,
including any incompatibilitiesStore in tightly closed container. Store away from incompatible materials (see Section 10 of the
SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

U.S OSHA Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	PEL	5 mg/m3	Oil mist
ACGIH Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	TWA	5 mg/m3	Oil mist
Biological limit values	No biological exposure limits noted t	for the ingredient(s).	
Appropriate engineering controls	engineering Good general ventilation should be used. Ventilation rates should be matched to cor applicable, use process enclosures, local exhaust ventilation, or other engineering comaintain airborne levels below recommended exposure limits. If exposure limits have established, maintain airborne levels to an acceptable level.		her engineering controls to

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protectionWear appropriate chemical resistant gloves.		
Other	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

, ,	•		
Appearance			
Physical state	Liquid.		
Form	Liquid.		
Color	Colorless-blue / white		
Odor	Citrus		
Odor threshold	Not available.		
рН	6		
Melting point/freezing point	Not available.		
Initial boiling point and boiling	212 °F (100 °C)		
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or expl			
Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	Not available.		
Vapor density	>1		
Relative density	Not available.		
Solubility(ies)			
Solubility (water)	Miscible.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	Not available.		
Other information			
Explosive properties	Not explosive.		
Oxidizing properties	Not oxidizing.		
Specific gravity	0.995		
VOC	0 % per US State and Federal Consumer Product Regulations		
10. Stability and reactivity			
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.		
Chemical stability	Material is stable under normal conditions.		

Material name: SCRUBS® Hand Cleaner Towels

42201, 42210, 42225, 42230, 42232, 42256, 42260, 42272, 42274, 42280 Version #: 02 Revision date: 06-03-2019 Issue date: 04-

Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
Conditions to avoid	Contact with incompatible materials.		
Incompatible materials	Strong oxidizing agents.		
Hazardous decomposition	Carbon oxides.		
products	cts		
11. Toxicological information	tion		
Information on likely routes of e	exposure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected	ed.	
Eye contact	Direct contact with eyes may cause temporary irrit	ation.	
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irrit	ation.	
Information on toxicological eff	ects		
Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
Alcohols, C12-15, ethoxylated (CA	AS 68131-39-5)		
Acute			
Dermal	_		
LD50	Rat	> 2000 mg/kg, 24 Hours	
Oral		5000 //	
LD50		> 5000 mg/kg	
Distillates Petroleum Hydrotreated Acute	d Light (CAS 64742-47-8)		
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation		5.5	
Vapor			
LC50	Rat	> 0.1 mg/l, 8 Hours	
Oral			
LD50	Rat	> 5000 mg/kg	
d-limonene (CAS 5989-27-5)			
Acute			
Oral	5		
LD50	Rat	> 2000 mg/kg	
Neopentyl Glycol (CAS 126-30-7)			
<u>Acute</u> Oral			
LD50	Rat	> 6400 mg/kg	
Phenoxyethanol (CAS 122-99-6)			
Acute			
Dermal			
LD50	Rabbit	> 2200 mg/kg, 24 Hours	
Oral			
LD50	Rat 1400 mg/kg		
Sodium Dodecanol Sulfosuccinate	e (CAS 577-11-7)		
Acute			
Dermal LD50	Rabbit	> 10000 mg/kg 24 Hours	
		> 10000 mg/kg, 24 Hours	

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitization	1		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
d-limonene (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)			
Not listed. US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carcinogens		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
Further information	This product has no known adverse effect on human health.		
12. Ecological information	1		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		

Components		Species	Test Results
· · · · · · · · · · · · · · · · · · ·			
Alcohols, C12-15, ethoxyla	ated (CAS 6813	31-39-5)	
Aquatic	5050		0.07 0.40
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.37 - 0.43 mg/l, 48 hours
Fish	LC50	Channel catfish (Ictalurus punctatus)	1.04 - 1.39 mg/l, 96 hours
Distillates Petroleum Hydr	otreated Light ((CAS 64742-47-8)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
d-limonene (CAS 5989-27	·-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.619 - 0.796 mg/l, 96 hours
Phenoxyethanol (CAS 122	2-99-6)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	337 - 352 mg/l, 96 hours
Sodium Dodecanol Sulfos	uccinate (CAS	577-11-7)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	20 - 40 mg/l, 96 hours
sistence and degradabilit	ty No data is	s available on the degradability of any ingredier	nts in the mixture.
accumulative potential			
Partition coefficient n-oc	tanol / water (log Kow)	
d-limonene		4.232	
Phenoxyethanol		1.16	
oility in soil	Not estab	lished.	

Material name: SCRUBS® Hand Cleaner Towels

42201, 42210, 42225, 42230, 42232, 42256, 42260, 42272, 42274, 42280 Version #: 02 Revision date: 06-03-2019 Issue date: 04-

Other adverse effects None known.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

General information

This material is not regulated by any mode of transportation.

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting) Not regulated.

not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	04-11-2019
Revision date	06-03-2019
Version #	02
Disclaimer	ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	Accidental release measures: Methods and materials for containment and cleaning up Physical & Chemical Properties: Multiple Properties Transport Information: Proper Shipping Name/Packing Group HazReg Data: International Inventories GHS: Classification



SAFETY DATA SHEET

1. Identification

1. Identification	
Product identifier	SCRUBS® In-A-Bucket Hand Cleaner Towels
Other means of identification	
Part Number	42201, 42210, 42230, 42232, 42256, 42260, 42272, 42274, 42280
Recommended use	A cleaner wipe designed for removing dirt and grease from hands.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer	
Company name	ITW Pro Brands
Address	805 E. Old 56 Highway
	Olathe, KS 66061
Country	(U.S.A.)
	Tel: +1 800-443-9536
In Case of Emergency	1-800-535-5053 (Infotrac)
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Not available.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates Petroleum Hydrotreated Light		64742-47-8	1 - 3
Sodium Dodecanol Sulfosuccinate		577-11-7	0.5 - 1
Dimethyl Glutarate		1119-40-0	< 0.5
D-limonene		5989-27-5	< 0.5
Phenoxyethanol		122-99-6	< 0.5

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.

Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	

Specific hazards arising from During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo unusual fire or explosion hazards noted.

6. Accidental release measures

Special protective equipment

equipment/instructions

and precautions for firefighters

the chemical

Fire fighting

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Mechanically pick up material and place in a proper container for disposal.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	

Precautions for safe handlingAvoid prolonged exposure. Observe good industrial hygiene practices.Conditions for safe storage,
including any incompatibilitiesStore in tightly closed container. Store away from incompatible materials (see Section 10 of the
SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

U.S OSHA Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	PEL	5 mg/m3	Oil mist
US. OSHA Table Z-1 Limits for A Components	ir Contaminants (29 CFR 1910.1 Type	l000) Value	Form
Glycerin (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

ACGIH Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	TWA	5 mg/m3	Oil mist
US. Workplace Environme	ntal Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Propylene Glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.
Biological limit values	No biological exposure limits noted for the	ingredient(s).	
Appropriate engineering controls	Good general ventilation should be used. V applicable, use process enclosures, local e maintain airborne levels below recommenc established, maintain airborne levels to an	exhaust ventilation, or othed exposure limits. If explored exposure limits and the exposure limits and the exposure limits are as the explored expl	ner engineering controls to
Individual protection measures	s, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or g	oggles).	
Skin protection Hand protection	Wear appropriate chemical resistant gloves	S.	
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, wear suita	able respiratory equipme	nt.
Thermal hazards	Wear appropriate thermal protective clothin		
General hygiene considerations	Always observe good personal hygiene me and before eating, drinking, and/or smoking equipment to remove contaminants.		

9. Physical and chemical properties

•	· -
Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Colorless-blue / white
Odor	Citrus
Odor threshold	Not available.
рН	6
Melting point/freezing point	Not available.
Initial boiling point and boiling	212 °F (100 °C)
range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	> 1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Miscible.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.995
VOC	0 % per US State and Federal Consumer Product Regulations

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Not available.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Ir

Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
3-iodo-2-propynyl-butylcart	pamate (CAS 55406-53-6)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Oral			
LD50	Rat	1.1 g/kg	
Alcohols, C12-15, ethoxyla	ted (CAS 68131-39-5)		
<u>Acute</u>			
Dermal			
LD50	Rat	> 2000 mg/kg, 24 Hours	
Inhalation			
Vapor			
LC50	Rat	> 100 mg/m3, 6 Hours	
Distillates Petroleum Hydro	treated Light (CAS 64742-47-8)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
Vapor			
LC50	Rat	> 0.1 mg/l, 8 Hours	
Material name: SCRUBS® In-	A-Bucket Hand Cleaner Towels		SE
42201, 42210, 42230, 42232,	42256, 42260, 42272, 42274, 42280 Version #: 01 Iss	sue date: 03-05-2021	4

ponents	Species	Test Results	
Oral	D-4	5000	
LD50	Rat	> 5000 mg/kg	
ionene (CAS 5989-27-5)			
<u>Acute</u> Oral			
LD50	Rat	> 2000 mg/kg	
erin (CAS 56-81-5)		2000 mg/ng	
Acute			
Oral			
LD50	Rat	18000 mg/kg	
oxyethanol (CAS 122-99-6)			
Acute			
Dermal			
LD50	Rabbit	> 2200 mg/kg, 24 Hours	
Oral			
LD50	Rat	1400 mg/kg	
ylene Glycol (CAS 57-55-6)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2000 mg/kg, 24 Hours	
Oral			
LD50	Rat	22000 mg/kg	
um Dodecanol Sulfosuccinate (CAS 577-11-7)		
<u>Acute</u>			
Dermal	B 11 1	40000 # 0411	
LD50	Rabbit	> 10000 mg/kg, 24 Hours	
Oral	Det		
LD50	Rat	> 1300 mg/kg	
	Prolonged skin contact may cause temporary irritation		
ous eye damage/eye tion	Direct contact with eyes may cause temporary irritation	on.	
piratory or skin sensitization			
	Not a respiratory sensitizer.		
	This product is not expected to cause skin sensitization		
	No data available to indicate product or any compone mutagenic or genotoxic.	ents present at greater than 0.1% are	
inogenicity	This product is not considered to be a carcinogen by	IARC, ACGIH, NTP, or OSHA.	
ARC Monographs. Overall Ev	valuation of Carcinogenicity		
D-limonene (CAS 5989-27- OSHA Specifically Regulated	5) 3 Not classifiable as t Substances (29 CFR 1910.1001-1053)	o carcinogenicity to humans.	
Not listed. US. National Toxicology Prog Not listed.	ram (NTP) Report on Carcinogens		
	This product is not expected to cause reproductive or developmental effects.		
ific target organ toxicity -	Not classified.	- p	
-	Not classified.		
-	Not available.		
	r tolonged initialation may be narfillul.		
le exposure sific target organ toxicity - ated exposure ration hazard			

Further information

This product has no known adverse effect on human health.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
3-iodo-2-propynyl-butylcarba	mate (CAS 55406	5-53-6)	
Aquatic	-	-	
Acute			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.05 - 0.089 mg/l, 96 hours
Alcohols, C12-15, ethoxylate	d (CAS 68131-39	-5)	
Aquatic			
Acute			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.37 - 0.43 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.96 - 1.4 mg/l, 96 hours
Distillates Petroleum Hydrotr	eated Light (CAS	64742-47-8)	
Aquatic	2 (·	
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	2.2 mg/l, 4 days
D-limonene (CAS 5989-27-5		/	
Aquatic	/		
Acute			
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	
	2000		0.019 - 0.790 mg/l, 90 hours
Glycerin (CAS 56-81-5)			
Aquatic			
<i>Acute</i> Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
Phenoxyethanol (CAS 122-9	9.6)		
Aquatic	5 5)		
Aqualic			
Fish	LC50	Fathead minnow (Pimephales promelas)	337 - 352 ma/l . 96 hours
			557 552 mg/l, 50 h0u15
Propylene Glycol (CAS 57-58)-0)		
Aquatic			
<i>Acute</i> Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
			-
Fish	LC50	Fathead minnow (Pimephales promelas)	r to mg/l, so nours
Sodium Dodecanol Sulfosuce	cinate (CAS 577-	11-7)	
Aquatic			
Acute	1.050		00 40 mm/ 00 have
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	20 - 40 mg/l, 96 hours
sistence and degradability	No data is ava	ilable on the degradability of any ingredier	nts in the mixture.
accumulative potential			
Partition coefficient n-octa	nol / water (log k		
D-limonene		4.57	
Glycerin		-1.76 1.16	
Phenoxyethanol Propylene Glycol		-0.92	
pility in soil	Not establishe		
		-	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
14. Transport information	

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

General information

This material is not regulated by any mode of transportation.

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

Glycerin (CAS 56-81-5)

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Other Flavoring Substances with OSHA PEL's

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

3-iodo-2-propynyl-butylcarbamate (CAS 55406-53-6)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name On inve	entory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	03-05-2021
Version #	01
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

Version No. 13005-12B Date of Issue: February 2012

ANSI-Z400.1-2003 Format

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Additional Names:	Simple Green [®] All-Purpose Cleaner Simple Green [®] Concentrated Cleaner Degrease Simple Green [®] Scrubbing Pad (Fluid in pad only		rizer
Manufacturer's Part	Number: *Please refer to page 4		
Company:	Sunshine Makers, Inc. 15922 Pacific Coast Highway Huntington Beach, CA 92649 USA		
Telephone: Emergency Phone:	800-228-0709 ● 562-795-6000 Chem-Tel 24-Hour Emergency Service: 800-255	Fax: 5-3924	562-592-3830

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Irritant. This is a Green colored liquid with a sassafras added odor. Scrubbing pad is a green fibrous rectangle infused with Simple Green Cleaner.



<u>NFPA/HMIS Rating:</u> Health = 1 = slight Fire, Reactivity, and Special = 0 = minimal

Potential Health Effects

- Eye Contact:
 Mildly irritating.

 Skin Contact:
 No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.

 Ingestion:
 May cause stomach or intestinal irritation if swallowed.
- Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	Percent Range
Water	7732-18-5	≥ 78%
2-butoxyethanol	111-76-2	≤ 5%
Ethoxylated Alcohol	68439-46-3	≤ 5%
Tetrapotassium Pyrophosphate	7320-34-5	≤ 5%
Sodium Citrate	68-04-2	≤ 5%
Fragrance	Proprietary Mixture	≤ 1%
Colorant	Proprietary Mixture	≤ 1%

Section 4: FIRST AID MEASURES

If Inhaled: If adverse effect occurs, move to fresh air.

- If on skin: If adverse effect occurs, rinse skin with water.
- If in eyes: Flush with plenty of water. After 5 minutes of flushing, remove contact lenses, if present. Continue flushing for at least 10 more minutes. If irritation persists seek medical attention.

If ingested: Drink plenty of water to dilute.

Version No. 13005-12B Date of Issue: February 2012

ANSI-Z400.1-2003 Format

Section 5: FIRE FIGHTING MEASURES

This formula is stable, non-flam	mable, and will not burn. No special procedures necessary
Flammability:	Non-flammable
Flash Point:	Non-flammable
Suitable Extinguishing Media: Extinguishing Media to Avoid Special Exposure Hazards: Special Protective Equipment:	Use Dry chemical, CO2, water spray or "alcohol" foam. High volume jet water. In event of fire created carbon oxides, oxides of phosphorus may be formed. Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See section 8 – personal protection.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Method for Clean Up: Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

Section 7: HANDLING AND STORAGE

Handling: Keep container tightly closed. Ensure adequate ventilation. Keep out of reach of children.

Storage: Keep in cool dry area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:

2-butoxyethanol Tetrapotassium Pyrophosphate OSHA PEL TWA 50 ppm (240 mg/m³) ACGIH TLV 20 ppm (97 mg/m³) 5 mg/m³

Exposure Controls:

Eye Contact: Use protective glasses if splashing or spray-back is likely.

Respiratory: Use in well ventilated areas.

Skin Contact: Prolonged exposure or dermal sensitive individuals should use protective gloves.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green Liquid	Vapor P	Vapor Pressure:		18 mmHg @20°C; 23.5 mmHg @26°C	
Odor:	Added Sassafras odor	Density:	Density:		8.5 lb/gal;	
Specific Gravity:	1.010 ± 0.010	Water S	Water Solubility: 100%			
pH:	9.5 ± 0.5	VOC con	nposite Par	rtial Pressure:	TBD	
Boiling Point:	~210°F (98 °C)	VOC:	CARB Met	hod 310	3.8%	
Freezing Point:	~ 32°F (0 °C)		SCAQMD Method 313 2.8%		2.8%	
Nutrient Content: Phosphorous: 0.28% Sulfur: ~180 ppm						
	Chloride: ~110 ppm Fluorine: ~90 ppm					

Material Safety Data Sheet: Simple Green[®] All-Purpose Cleaner and Simple Green[®] Scrubbing Pad

Version No. 13005-12B Date of Issue: February 2012

ANSI-Z400.1-2003 Format

Section 10: STABILITY AND REACTIVITY

Stability:StableMaterials to Avoid:None knownHazardous Decomposition Products:Normal products of combustion - CO, CO2; Oxides of Phosphorous may occur.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:Oral LD_{50} (rat)> 5 g/kg body weightDermal LD_{50} (rabbit)> 5 g/kg body weight

Toxicity calculated from ingredients using OECD SERIES ON TESTING AND ASSESSMENT Number 33

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Section 12: ECOLOGICAL INFORMATION

- Hazard to wild mammals: Low, based on toxicology profile
- Hazard to avian species: Low, based on toxicology profile
- Hazard to aquatic organisms: Low, based on toxicology profile

Chemical Fate Information: Readily Biodegradable per OECD 301D, Closed Bottle Test

Section 13: DISPOSAL CONSIDERATIONS

Appropriate Method for Disposal:

Unused Product:	*Dilute with water to use concentration and dispose by sanitary sewer.
Used Product:	*This product can enter into clarifiers and oil/water separators. Used product may be hazardous depending on the cleaning application and resulting contaminants.
Empty Containers:	*Triple-rinse with water and offer for recycling if available in your area. Otherwise, dispose as non-hazardous waste.

*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.S. Department of Trans IMO / IDMG: ICAO/ IATA: ADR/RID:	sportation (DOT) / Canadian TDG: Not classified as Dangerous Not classified as Dangerous Not classified as Dangerous	Not Regulated
U.N. Number	Not Required	Proper Shipping Name:
Hazard Class:	Non-Hazardous	Marine Pollutant:

Detergent Solution No

Material Safety Data Sheet: Simple Green[®] All-Purpose Cleaner and Simple Green[®] Scrubbing Pad

Version No. 13005-12B Date of Issue: February 2012 ANSI-Z400.1-2003 Format

Section 15: REGULATORY INFORMATION

All components are listed on:EINECS, TSCA, DSL and AICS Inventory.No components listed under:Clean Air Act Section 112; Clean Water Act 307 & 311				
	2-butoxyethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230 – Certain Glycol Ethers.			
RCRA Status: Not	a hazardous waste CERC	CLA Status :	No components listed	
State Right To Know Lists				
2-butoxyethanol Illinois, Massachusetts, New Jersey, Pennsylvania, Rhode Island				
WHMIS Classification – Category D, subcategory 2B, eye irritant				
Name	Toxic Substances List – Scher (Canadian Environmental Pr		NPRI Inventory	
2-butoxyethanol	Yes		No	
This was done have been also if:	al a second to a second second sufficients			

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada's Controlled Products Regulation.

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:

SUNSHINE MAKERS, INC. - TECHNICAL DEPARTMENT

15922 Pacific Coast Hwy. Huntington Beach, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri]

Fax: 562/592-3830

Email: infoweb@simplegreen.com

CAGE CODE 1Z575 GSA/FSS - CONTRACT NO. GS-07F-0065J Scrubbing Pad GSA/BPA - CONTRACT NO. GS-07F-BSIMP National Stock Numbers & Industrial Part Numbers:

Scrubbing

ational Stock Numbers & Industrial Part Numbers:					
Simple Green	Part Number	NSN	Size		
	13012	7930-01-342-5315	24 oz spray (12/case)		
	13005	7930-01-306-8369	1 Gallon (6/case)		
	13006	7930-01-342-5316	5 Gallon		
	13016	7930-01-342-5317	15 Gallon		
	13008	7930-01-342-4145	55 Gallon		
	13103	N/A	2oz samples		
	13225	N/A	2.5 Gallon		
	13275	N/A	275 Gallon tote		
	48049	N/A	1 Gallon Conc. w/ 32oz dilution		
Scrubbing Pad	10224	7930-01-346-9148	Each (24/case)		
	-	•			

Retail Numbers:			
Part Number	Size		
13002	16 oz Trigger (12/case)		
13005	1 Gallon (6/case)		
13013	24 oz Trigger (12/case)		
13014	67 oz / 2 L (6/case)		
13033	32 oz Trigger (12/case)		
80007	Tier display holding 13005 (36/Tier)		

part number is for both industrial and retail **International Part Numbers May Differ.

DISCLAIMER: The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.

Version No. 13005-12B Date of Issue: February 2012

ANSI-Z400.1-2003 Format

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Additional Names:	Simple Green [®] All-Purpose Cleaner Simple Green [®] Concentrated Cleaner Degreaser Deodorizer Simple Green [®] Scrubbing Pad (Fluid in pad only)		
Manufacturer's Part	Number: *Please refer to page 4		
Company:	Sunshine Makers, Inc. 15922 Pacific Coast Highway Huntington Beach, CA 92649 USA		
Telephone: Emergency Phone:	800-228-0709 ● 562-795-6000 Chem-Tel 24-Hour Emergency Service: 800-255	Fax: 5-3924	562-592-3830

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Irritant. This is a Green colored liquid with a sassafras added odor. Scrubbing pad is a green fibrous rectangle infused with Simple Green Cleaner.



<u>NFPA/HMIS Rating:</u> Health = 1 = slight Fire, Reactivity, and Special = 0 = minimal

Potential Health Effects

- Eye Contact:
 Mildly irritating.

 Skin Contact:
 No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.

 Ingestion:
 May cause stomach or intestinal irritation if swallowed.
- Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	Percent Range
Water	7732-18-5	≥ 78%
2-butoxyethanol	111-76-2	≤ 5%
Ethoxylated Alcohol	68439-46-3	≤ 5%
Tetrapotassium Pyrophosphate	7320-34-5	≤ 5%
Sodium Citrate	68-04-2	≤ 5%
Fragrance	Proprietary Mixture	≤ 1%
Colorant	Proprietary Mixture	≤ 1%

Section 4: FIRST AID MEASURES

If Inhaled:If adverse effect occurs, move to fresh air.If on skin:If adverse effect occurs, rinse skin with water.If in eyes:Flush with plenty of water. After 5 minutes of flushing, remove contact lenses, if present. Continue
flushing for at least 10 more minutes. If irritation persists seek medical attention.If ingested:Drink plenty of water to dilute.

Version No. 13005-12B Date of Issue: February 2012

ANSI-Z400.1-2003 Format

Section 5: FIRE FIGHTING MEASURES

This formula is stable, non-flam	mable, and will not burn. No special procedures necessary
Flammability:	Non-flammable
Flash Point:	Non-flammable
Suitable Extinguishing Media: Extinguishing Media to Avoid Special Exposure Hazards: Special Protective Equipment:	Use Dry chemical, CO2, water spray or "alcohol" foam. High volume jet water. In event of fire created carbon oxides, oxides of phosphorus may be formed. Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See section 8 – personal protection.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Method for Clean Up: Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

Section 7: HANDLING AND STORAGE

Handling: Keep container tightly closed. Ensure adequate ventilation. Keep out of reach of children.

Storage: Keep in cool dry area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:

2-butoxyethanol Tetrapotassium Pyrophosphate OSHA PEL TWA 50 ppm (240 mg/m³) ACGIH TLV 20 ppm (97 mg/m³) 5 mg/m³

Exposure Controls:

Eye Contact: Use protective glasses if splashing or spray-back is likely.

Respiratory: Use in well ventilated areas.

Skin Contact: Prolonged exposure or dermal sensitive individuals should use protective gloves.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green Liquid	Vapor P	ressure:	18 mmHg @2	0°C; 23.5 mmHg @26°C
Odor:	Added Sassafras odor	Density	:	8.5 lb/gal;	
Specific Gravity:	1.010 ± 0.010	Water S	Water Solubility: 100%		
pH:	9.5 ± 0.5	VOC co	mposite Par	rtial Pressure:	TBD
Boiling Point:	~210°F (98 °C)	VOC:	CARB Met	hod 310	3.8%
Freezing Point:	~ 32°F (0 °C)		SCAQMD Method 313 2.8%		2.8%
Nutrient Content: Phosphorous: 0.28% Sulfur: ~180 ppm					
	Chloride: ~110 ppm Fluorine: ~90 ppm				

Material Safety Data Sheet: Simple Green[®] All-Purpose Cleaner and Simple Green[®] Scrubbing Pad

Version No. 13005-12B Date of Issue: February 2012

ANSI-Z400.1-2003 Format

Section 10: STABILITY AND REACTIVITY

Stability:StableMaterials to Avoid:None knownHazardous Decomposition Products:Normal products of combustion - CO, CO2; Oxides of Phosphorous may occur.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:Oral LD_{50} (rat)> 5 g/kg body weightDermal LD_{50} (rabbit)> 5 g/kg body weight

Toxicity calculated from ingredients using OECD SERIES ON TESTING AND ASSESSMENT Number 33

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Section 12: ECOLOGICAL INFORMATION

- Hazard to wild mammals: Low, based on toxicology profile
- Hazard to avian species: Low, based on toxicology profile
- Hazard to aquatic organisms: Low, based on toxicology profile

Chemical Fate Information: Readily Biodegradable per OECD 301D, Closed Bottle Test

Section 13: DISPOSAL CONSIDERATIONS

Appropriate Method for Disposal:

Unused Product:	*Dilute with water to use concentration and dispose by sanitary sewer.
Used Product:	*This product can enter into clarifiers and oil/water separators. Used product may be hazardous depending on the cleaning application and resulting contaminants.
Empty Containers:	*Triple-rinse with water and offer for recycling if available in your area. Otherwise, dispose as non-hazardous waste.

*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.S. Department of Trans	sportation (DOT) / Canadian TDG	Not Regulated
IMO / IDMG:	Not classified as Dangerous	
ICAO/ IATA:	Not classified as Dangerous	
ADR/RID:	Not classified as Dangerous	
U.N. Number	Not Required	Proper Shipping Name:
Hazard Class:	Non-Hazardous	Marine Pollutant:

Detergent Solution No

Material Safety Data Sheet: Simple Green[®] All-Purpose Cleaner and Simple Green[®] Scrubbing Pad

Version No. 13005-12B Date of Issue: February 2012 ANSI-Z400.1-2003 Format

Section 15: REGULATORY INFORMATION

All components are listed on:EINECS, TSCA, DSL and AICS Inventory.No components listed under:Clean Air Act Section 112; Clean Water Act 307 & 311				
	2-butoxyethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230 – Certain Glycol Ethers.			
RCRA Status: Not	a hazardous waste CERC	CLA Status :	No components listed	
State Right To Know Lists				
2-butoxyethanol Illinois, Massachusetts, New Jersey, Pennsylvania, Rhode Island				
WHMIS Classification – Category D, subcategory 2B, eye irritant				
Name	Toxic Substances List – Scher (Canadian Environmental Pr		NPRI Inventory	
2-butoxyethanol	Yes		No	
This was done have been also if:	al a second to a second second sufficients			

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada's Controlled Products Regulation.

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:

SUNSHINE MAKERS, INC. - TECHNICAL DEPARTMENT

15922 Pacific Coast Hwy. Huntington Beach, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri]

Fax: 562/592-3830

Email: infoweb@simplegreen.com

CAGE CODE 1Z575 GSA/FSS - CONTRACT NO. GS-07F-0065J Scrubbing Pad GSA/BPA - CONTRACT NO. GS-07F-BSIMP National Stock Numbers & Industrial Part Numbers:

Scrubbing

ational Stock Multipers & Industrial Lart Multipers.			
Simple Green	Part Number	NSN	Size
	13012	7930-01-342-5315	24 oz spray (12/case)
	13005	7930-01-306-8369	1 Gallon (6/case)
	13006	7930-01-342-5316	5 Gallon
	13016	7930-01-342-5317	15 Gallon
	13008	7930-01-342-4145	55 Gallon
	13103	N/A	2oz samples
	13225	N/A	2.5 Gallon
	13275	N/A	275 Gallon tote
	48049	N/A	1 Gallon Conc. w/ 32oz dilution
Scrubbing Pad	10224	7930-01-346-9148	Each (24/case)
	•	•	

Retail Numbers:		
Part Number	Size	
13002	16 oz Trigger (12/case)	
13005	1 Gallon (6/case)	
13013	24 oz Trigger (12/case)	
13014	67 oz / 2 L (6/case)	
13033	32 oz Trigger (12/case)	
80007	Tier display holding 13005 (36/Tier)	

part number is for both industrial and retail **International Part Numbers May Differ.

DISCLAIMER: The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.



Date of issue: 03/11/2016 Revision date: 08/23/2017

Supersedes: 07/27/2017

Distributor

Version: 3.0

SECTION 1: IDENTIFICATION

1.1. IDENTIFICATION

Product form

Product name

: Mixture : SKC-S Aerosol

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Recommended use

: Non-Destructive Testing.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer Magnaflux

155 Harlem Ave. Glenview, IL 60025 - USA

T 847-657-5300

1.4. EMERGENCY TELEPHONE NUMBER

Emergency number

: CHEMTREC 800-424-9300

SECTION 2: HAZARD IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification

Flam. Aerosol 1 Press. Gas (Comp.) Skin Irrit. 2 STOT SE 3 Asp. Tox. 1

2.2. LABEL ELEMENTS

GHS labelling

Hazard pictograms (GHS)

Signal word (GHS) Hazard statements (GHS)

Precautionary statements (GHS)



- : Danger
- : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.
- : Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. OTHER HAZARDS

No additional information available

2.4. UNKNOWN ACUTE TOXICITY

Not applicable

Page 1



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Not applicable

3.2. MIXTURES

Name	Product identifier	%
Naphtha, petroleum, hydrotreated light	(CAS-No.) 64742-49-0	96.40
Carbon dioxide	(CAS-No.) 124-38-9	3.60

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID M	EASURES
First-aid measures after inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
4.2. MOST IMPORTANT SYMPTOMS	S AND EFFECTS, BOTH ACUTE AND DELAYED
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.
4.3. INDICATION OF ANY IMMEDIA	TE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media	: Dry chemical. Carbon dioxide. Water fog. Foam.		
Unsuitable extinguishing media	: Do not use water jet.		
5.2. SPECIAL HAZARDS ARISING FROM	THE SUBSTANCE OR MIXTURE		
Fire hazard	Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon.		
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.		
Reactivity	: No dangerous reaction known under conditions of normal use.		
5.3. ADVICE FOR FIREFIGHTERS			
Firefighting instructions	: Move containers away from the fire area if this can be done without risk. DO NOT fight fire when fire reaches explosives. Evacuate area.		
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.		

SECTION 6: ACCIDENTAL RELEASE MEASURES

 6.1.
 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

 General measures
 :
 Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove ignition sources. Use special care to avoid static electric charges. Use only non-sparking tools. Avoid breathing vapour or mist.

6.1.1. FOR NON-EMERGENCY PERSONNEL

No additional information available

6.1.2. FOR EMERGENCY RESPONDERS

No additional information available



6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow to enter into surface water or drains. Prevent entry to sewers and public waters.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment	 Stop leak without risks if possible. Dilute with water. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. Use explosion-proof equipment. 	
Methods for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation.	
6.4. REFERENCE TO OTHER SECTIONS		
For further information refer to section 8: "Exposure controls/personal protection"		

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLI	NG
Additional hazards when processed	: Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling	: Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Avoid breathing vapour or mist. Avoid contact with skin and eyes. Do not swallow. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
7.2. CONDITIONS FOR SAFE STORAGE	, INCLUDING ANY INCOMPATIBILITIES
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep locked up and out of reach of children. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatibles. Do not expose to temperatures exceeding 50 °C/ 122 °F.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Naphtha, petroleum, hydrotreated light (64742-49-0)				
ACGIH	ACGIH TWA	247 ppm/8h		
Carbon dioxide (124-38-9)	Carbon dioxide (124-38-9)			
ACGIH	ACGIH TWA (ppm)	5000 ppm		
ACGIH	ACGIH STEL (ppm)	30000 ppm		
OSHA	OSHA PEL (TWA) (mg/m³)	9000 mg/m ³		
OSHA	OSHA PEL (TWA) (ppm)	5000 ppm		
IDLH	US IDLH (ppm)	40000 ppm		
NIOSH	NIOSH REL (TWA) (mg/m ³)	9000 mg/m ³		
NIOSH	NIOSH REL (TWA) (ppm)	5000 ppm		
NIOSH	NIOSH REL (STEL) (mg/m ³)	54000 mg/m ³		
NIOSH	NIOSH REL (STEL) (ppm)	30000 ppm		

8.2. **EXPOSURE CONTROLS** : Ensure good ventilation of the work station. Use explosion-proof ventilation equipment. Appropriate engineering controls Hand protection : Wear suitable gloves resistant to chemical penetration. Eye protection : Safety glasses or goggles are recommended when using product. Skin and body protection : Wear suitable protective clothing. : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection Respiratory protection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Environmental exposure controls : Avoid release to the environment. Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.



SKC-S Aerosol

Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Gas/Pressurized Liquid
Appearance	: Clear
Colour	: Colourless
Odour	: Hydrocarbon
Odour threshold	: No data available
рН	: Not applicable
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: No data available
9.2. OTHER INFORMATION	
VOC content	: 745.77 g/l
Heat of combustion	: 39.14 kJ/g

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2. CHEMICAL STABILITY

Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4. CONDITIONS TO AVOID

Sources of ignition. Heat. Incompatible materials. Direct sunlight.

10.5. INCOMPATIBLE MATERIALS

Oxidizing agents.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity (oral)	:	Not classified.
Acute toxicity (dermal)	:	Not classified.
Acute toxicity (inhalation)	:	Not classified.



SKC-S Aerosol

Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Naphtha, petroleum, hydrotreated light (64742-49-0)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 3160 mg/kg	
LC50 inhalation rat	73680 ppm/4h	
Skin corrosion/irritation	: Causes skin irritation.	
	pH: Not applicable	
Serious eye damage/irritation	: Not classified.	
	pH: Not applicable	
Respiratory or skin sensitisation	: Not classified.	
Germ cell mutagenicity	: Not classified.	
Carcinogenicity	: Not classified.	
Reproductive toxicity	: Not classified.	
STOT-single exposure	: May cause drowsiness or dizziness.	
STOT-repeated exposure	: Not classified.	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
SKC-S Aerosol		
Vaporizer	Aerosol	

Vapolizei	Actosol
ymptoms/effects after inhalation	: May cause irritation to the respiratory tract. May cause drowsiness or dizziness.
ymptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
ymptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
ymptoms/effects after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY Ecology - general

: May cause long-term adverse effects in the aquatic environment.

12.2. PERSISTENCE AND DEGRADABILITY

SKC-S Aerosol	
Persistence and degradability	Not established.
12.3. BIOACCUMULATIVE POTENTIAL	
SKC-S Aerosol	
Bioaccumulative potential	Not established.
Carbon dioxide (124-38-9) BCF fish 1	(no bioaccumulation)
12.4. MOBILITY IN SOIL No additional information available	
12.5. OTHER ADVERSE EFFECTS	
Effect on the global warming	: No known effects from this product.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Flammable vapours may accumulate in the container. Pressurized container: Do not pierce or burn, even after use.





SECTION 14: TRANSPORT INFORMATION In accordance with DOT/TDG/IATA/IMDG

DOT Transportation of Dangerous Goods IATA IMDG

- : Consumables, Limited Quantity
- : Consumables, Limited Quantity
- : UN1950, Aerosols Flammable, 2.1
- : UN1950, Aerosols, 2.1 (Limited Quantity)

SECTION 15: REGULATORY INFORMATION

15.1. FEDERAL REGULATIONS

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

NFPA health hazard	:	2
NFPA fire hazard	:	4
NFPA reactivity	:	0



15.2. INTERNATIONAL REGULATIONS

No additional information available

15.3. US STATE REGULATIONS

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

Carbon dioxide (124-38-9) U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION

Revision date Other information : 08/23/2017

- Prepared by

- : None.
- : Nexreg Compliance Inc. www.Nexreg.com



SDS HazCom 2012 - WHMIS 2015 (Nexreg_MAGNAFLUX)

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use



GHS SAFETY DATA SHEET

Date Revised: SEPT 2015 Supersedes: MAY 2013

Spears® Primer-70 Low VOC Primer for PVC and CPVC Plastic Pipe

			IDENTIFICA	TION						
SECTION I - PROI										
PRODUCT NAME:	Spears [®] Prin	ner-70 Low VC	OC Primer for P	VC and CPV	/C Plastic Pipe					
PRODUCT USE:	Low VOC Pri	mer for PVC ar	nd CPVC Plastic	Pipe						
MANUFACTURER:		ufacturing Con Street, Sylmar 1611			SUPPLIER:					
EMERGENCY: Transport	ation/Medical Iss	sues: Tel. 800-{	535-5053 or 352	-323-3500 (c	outside of USA) INFOTR	AC				
SECTION 2 - HAZ	ARDS IDEN	TIFICATIO	N							
GHS CLASSIFICATION:										
H	Health			Environ	nmental		Ph	ysical		
Acute Toxicity:	Category 4		Acute Toxicity:		None Known	Flammable Lic	uid		Category 2	
Skin Irritation:	Category 3		Chronic Toxicity		None Known					
Skin Sensitization:	NO Category 2B									
Eye: GHS LABEL:			1		Signal Word: Danger	WHMIS CLASS	IFICATION:	CLASS B,	DIVISION 2	
	Hazard S	Statements				Precautionar	y Statements	5		
1225: Highly flammable liqui					P210: Keep away from hea			 No smoking 		
1319: Causes serious eye irr 1332: Harmful if inhaled	itation				P261: Avoid breathing dust P280: Wear protective glow			n/face protec	tion	
1335: May cause respiratory	irritation				P304+P340: IF INHALED:					ole for breat
1336: May cause drowsiness					P403+P233: Store in a wel					
H351: Suspected of causing EUH019: May form explosive					P501: Dispose of contents/	container in accorda	nce with local	regulation		
SECTION 3 - CON		INFORMAT			TS					
			CAS#	EINECS #	REACH	CC	NCENTRATIC	N		
					Pre-registration Number		% by Weight			
Γetrahydrofuran (THF) Methyl Ethyl Ketone (ΜΕΚ)			109-99-9 78-93-3	203-726-8	05-2116297729-22-0000 05-2116297728-24-0000		45 - 59 19 - 29			
Cyclohexanone			108-94-1		05-2116297718-25-0000		5 - 15			
Acetone										
			67-64-1		05-2116297713-35-0000		6 - 21			
All of the constituents of this			ne TSCA inventory	of chemical	05-2116297713-35-0000 substances maintained by		6 - 21 exempt from t	-		
All of the constituents of this Indicates this chemical is s	subject to the repo	orting requireme	ne TSCA inventory nts of Section 313	of chemical s of the Emerg	05-2116297713-35-0000 substances maintained by t gency Planning and Comm	unity Right-to-Know	6 - 21 exempt from t Act of 1986 (4	-		
All of the constituents of this Indicates this chemical is a indicates that this chemica	subject to the repo al is found on Prop	orting requireme position 65's List	ne TSCA inventory nts of Section 313	of chemical s of the Emerg	05-2116297713-35-0000 substances maintained by t gency Planning and Comm	unity Right-to-Know	6 - 21 exempt from t Act of 1986 (4	-		
All of the constituents of this Indicates this chemical is a indicates that this chemica SECTION 4 - FIRS	subject to the repo al is found on Prop TAID MEAS	orting requireme position 65's List SURES	ne TSCA inventory nts of Section 313 t of chemicals kno	of chemical s of the Emerg wn to the Sta	05-2116297713-35-0000 substances maintained by t gency Planning and Comm te of California to cause ca	unity Right-to-Know ncer or reproductive	6 - 21 exempt from t Act of 1986 (4	-		
All of the constituents of this Indicates this chemical is s # indicates that this chemical SECTION 4 - FIRS Contact with eyes:	subject to the repo al is found on Prop TAID MEAS Flush eyes imm	orting requireme position 65's List SURES mediately with pl	ne TSCA inventory nts of Section 313 t of chemicals kno lenty of water for 1	of chemical s of the Emerg wn to the Sta 5 minutes an	05-2116297713-35-0000 substances maintained by to gency Planning and Commite of California to cause ca	unity Right-to-Know ncer or reproductive nediately.	6 - 21 exempt from t Act of 1986 (4 e toxicity.	40CFR372).		
All of the constituents of this Indicates this chemical is a indicates that this chemica SECTION 4 - FIRS	subject to the repo al is found on Prop T AID MEAS Flush eyes imm Remove contai	orting requireme position 65's List SURES nediately with pl minated clothing	ne TSCA inventory nts of Section 313 t of chemicals kno lenty of water for 1 g and shoes. Was	of chemical s of the Emerg wn to the Sta 5 minutes an h skin thorou	05-2116297713-35-0000 substances maintained by t gency Planning and Comm te of California to cause ca	unity Right-to-Know ncer or reproductive nediately. If irritation develops,	6 - 21 exempt from t Act of 1986 (4 toxicity.	40CFR372).		
All of the constituents of this Indicates this chemical is a # indicates that this chemical SECTION 4 - FIRS Contact with eyes: Skin contact:	subject to the repo al is found on Prop T AID MEAS Flush eyes imm Remove contau Remove to fres	orting requireme position 65's List SURES nediately with pl minated clothing sh air. If breathing	ne TSCA inventory nts of Section 313 t of chemicals kno lenty of water for 1 g and shoes. Was ng is stopped, give	of chemical s of the Emerg wn to the Sta 5 minutes an h skin thorou e artificial resp	05-2116297713-35-0000 substances maintained by gency Planning and Commit te of California to cause ca d seek medical advice immighly with soap and water.	unity Right-to-Know Incer or reproductive nediately. If irritation develops, cult, give oxygen. S	6 - 21 exempt from t Act of 1986 (4 e toxicity. seek medical seek medical	40CFR372).		
All of the constituents of this Indicates this chemical is a # indicates that this chemica SECTION 4 - FIRS Contact with eyes: Skin contact: Inhalation:	subject to the report al is found on Prop T AID MEAS Flush eyes imm Remove contain Remove to fres Rinse mouth w	orting requireme position 65's List SURES nediately with pl minated clothing sh air. If breathing	ne TSCA inventory nts of Section 313 t of chemicals kno lenty of water for 1 g and shoes. Was ng is stopped, give 1 or 2 glasses of v	of chemical s of the Emerg wn to the Sta 5 minutes an h skin thorou e artificial resp	05-2116297713-35-0000 substances maintained by i gency Planning and Comm ite of California to cause ca d seek medical advice imm ghly with soap and water. piration. If breathing is diffi	unity Right-to-Know Incer or reproductive nediately. If irritation develops, cult, give oxygen. S	6 - 21 exempt from t Act of 1986 (4 e toxicity. seek medical seek medical	40CFR372).		
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	AUTIONS TO CONTR	OL EXPOS	SURE / PEF	RSONAL P	ROTECTIO	ON			
EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:	OSHA PEL-Ceiling	CAL/OSHA PEL	CAL/OSHA Ceiling	CAL/OSHA STEL
	Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK)	50 ppm 200 ppm	100 ppm 300 ppm	200 ppm 200 ppm	N/E N/E	N/E N/E	200 ppm 200 ppm	N/E N/E	250 ppm 300 ppm
	Cyclohexanone Acetone	20 ppm 500 ppm	50 ppm 750 ppm	50 ppm 1000 ppm	N/E N/E	N/E N/E N/E	25 ppm 500 ppm	N/E 3000 ppm	N/E 750 ppm
Engineering Controls: Monitoring: Personal Protective Equ	Use local exhaust as needed. Maintain breathing zone airbor	rne concentratio	ons below expos	sure limits.	1	1	1	1	
Eye Protection:	Avoid contact with eyes, wear	splash-proof ch	nemical goggles	, face shield, sa	fety glasses (s	pectacles) with	brow guards ar	nd side shields,	etc.
Skin Protection:	as may be appropriate for the Prevent contact with the skin a	•	sible. Butvl rubb	er aloves shou	d be used for fi	equent immers	ion.		
	Use of solvent-resistant gloves	s or solvent-res	istant barrier cre	am should prov				ve application	
Respiratory Protection:	practices and procedures are Prevent inhalation of the solve exhaust ventilation to remove	ents. Use in a w	vell-ventilated ro	om. Open doo				•	
SECTION 9 - PHYS	With normal use, the Exposure			reached. Wher	limits approac	h, use respirato	ory protection e	quipment.	
Appearance:	Clear or purple							0.88 ppm (C	
Odor: pH:	Ethereal Not Applicable					Odor Thresho	510:	0.88 ppm (C	yclohexanone)
Melting/Freezing Poin						Boiling Range Evaporation		56°C (133°F > 1.0 (BUAC) to 156°C (313°F)
Boiling Point: Flash Point:	-20 °C (-4 °F) T			nent: Acetone		Flammability	:	Category 2	,
Specific Gravity:	0.857 ± 0.01 @		3°F ± 3.6°)			Flammability	Limits:		based on Cyclohexano based on Acetone
Solubility: Partition Coefficient	Soluble in wate n-octanol/water: No	er. ot Available				Vapor Pressu	ire:		@ 20 °C (68 °F) Aceto
Auto-ignition Temper	,) based on TH	IF			Vapor Density		>2.0 (Air =) Water-thin	1)
Decomposition Temp VOC Content:	erature: Not Applicable When applied a	as directed, pe	er SCAQMD Ru	ule 1168, Test I		Other Data: V VOC content is		water-thin	
SECTION 10 - STAI	BILITY AND REACTIV	ITY							
Stability:	Sta	able							
Hazardous decompos			use. When for				f carbon, hydr	ogen chloride	and smoke.
Conditions to avoid: Incompatible Materia			heat, sparks, o acids and bas			i sources.			
SECTION 11 - TOX	COLOGICAL INFORM	IATION	·						
Toxicity:	LD50				LC50				Target Organs
Tetrahydrofuran (THF)	Oral: 2842 mg					rs. 21,000 mg			STOT SE3
Methyl Ethyl Ketone (MEI Cyclohexanone	K) Oral: 2737 mg. Oral: 1535 mg.					irs. 23,500 mg irs. 8,000 PPN			STOT SE3
Acetone	Oral: 5800 mg		а. 946 ту/ку	(Tabbit)		100 mg/m ³ (ra	· · /		STOT SE3
Reproductive Effects Not Established	Teratogenicity Not Established		enicity ablished	Embryo Not Esta		Sensitization Not Esta			<u>c Products</u> ablished
SECTION 12 - ECO	LOGICAL INFORMAT	ION		-					
Ecotoxicity: Mobility: Degradability: Bioaccumulation:	None Known In normal use, emission of v Biodegradable Minimal to none.	volatile organio	c compounds (VOC's) to the	air takes place	e, typically at a	rate of ≤ 550	g/I.	
	TE DISPOSAL CONSI	IDERATIO	NS						
Follow local and national re	egulations. Consult disposal e	expert.	-						
Proper Shipping Name:	NSPORT INFORMATIC Flammable Liquid	-	hydrofuran Ac	etone)					
Hazard Class:	3	, 11.0.0. (10.10				EPTION for G			
Secondary Risk: Identification Number:	None UN 1993		DOT Limited						age. ler DOT as "ORM-D"
Packing Group:	PG II	L				0 0,		ay quality and	
Label Required: Marine Pollutant:	Class 3 Flammab			TDG	INFORMATIO	N			
	NO		TDG CLASS: SHIPPING NA UN NUMBER/I		OUP: FLAMM	ABLE	FLAMMABLE Flammable L UN 1993, PG	iquid, n.o.s. (A	Acetone, Tetrahydrofura
					anadient fit st		Europe Entre		21 Augustus P-
Symbols:	ormation: Highly Flammable F, Xi	e, iiritafit		I		gs: USA TSCA CS, Korea ECL			oL, Australia
Risk Phrases:	R11: Highly flammable.			R66: Repeated	exposure may	cause skin dryr	ess or cracking		
	R20: Harmful by inhalation R36/37: Irritating to eyes and	respiratory sve		R67: Vapors ma				the of	loook mediael e triss
Safety Phrases:	S9: Keep container in a well-v S16: Keep away from sources S25: Avoid contact with eyes.	entilated place	e.	S26: In case of S33: Take preca S46: If swallowe	autionary meas	ures against sta	atic discharges.		l seek medical advice. r or label.
SECTION 16 - OTH	ER INFORMATION								
Specification Information									
Department issuing dat		ronmental Hea							irements of the Europe
E-mail address: Training necessary:		Info@SpearsN training in pra	vitg.net ctices and proc	cedures contai			UND (Restrict	IUTI UT HAZARD	ous Substances).
Reissue date / reason f	or reissue: 09/0	1/15 / Updated	d GHS Standar	d Format	1 2 2 3 0				
Intended Use of Produce This product is intended in	t: Prim for use by skilled individuals at		d CPVC Plastic The informati		nerein is haso	d on data cons	sidered accurs	ite based on c	urrent state of
	ce. However, no warranty is ex								

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Version 17.2 replaces Version 17.1 Revision date: 22.08.2018 According to (EU) No. 2015/830

SECTION	1 IDENTIFICATIO COMPANY / UN			MIXTURE AND OF THE
1.1	Product identifier:	S	POTCHECK®	SKC-S - aerosol
1.2	Relevant identified uses of the n Relevant identified uses:	S		against: used in penetrant
	Uses advised against:			not recommended for any he identified uses above.
1.3	Details of the supplier of the safe Manufacturer: Address: Postcode: Telephone/fax number:	F E S T F	/lagnaflux® (A	Division of ITW Ltd) South Dorcan Industrial h, UK +44 (0)1793 524566 +44 (0)1793 490459 www.eu.magnaflux.com
	Email address of competent per responsible for SDS: National contact:		upport.eu@ma	agnaflux.com
1.4	Emergency telephone number:			CE HOURS, CALL 524566 (English only)
	Opening hours:	C - C	Office hours (Gl 5pm, Friday 8a	MT) Monday - Thursday 8am am - 4pm E HOURS, CALL

SECTION 2

HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixtur	e:
	Classification according to Regulation	Physical and Chemical Hazard:
	(EC) No 1272/2008 (CLP):	Aerosol 1 H222, H229
		Health Hazard:
		Skin Irrit. 2 H315
		STOT SE 3 H336
		Environmental Hazard:

Additional information

For full text of hazard statements and EU hazard statements see SECTION 16.

Aquatic Chronic 2 H411

No other information.

2.2

Label Elements:

Labelling according to regulation (EC) No 1272/2008 [CLP]

Signal Word:	DANGER
Hazard Statement(s):	 H222: Extremely flammable aerosol. H229: Pressurised container: may burst if heated. H315: Causes skin irritation H336: May cause drowsiness or dizziness H411: Toxic to aquatic life with long lasting effects
Precautionary Statement(s):	 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251 Do not pierce of burn even after use. P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P501: Dispose of contents/container to hazardous waste or special collection point.
Supplementary Precautionary Statement(s):	P271: Use only outdoors or in a well ventilated area. P302+352: IF ON SKIN: Wash with soap and water P264: Wash thoroughly after handling. P362+P364: Take off contaminated clothing and wash it before reuse.
Supplementary Hazard Information	None
(EU) Hazard Determining Component(s)	Hydrocarbons, C7 – C9, isoalkanes

2.3 Other hazards:

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Vapours can form explosive mixtures with air.

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Hydrocarbons, C7- C9, isoalkanes	921- 728-3	01- 2119471305-	60 -100	Flam. Liq 2: H225	No other
		42		Skin Irrit. 2: H315 STOT SE3: H336 Asp. Tox. 1: H304 (note1) Aquatic Chronic 2: H411	information
Hydrocarbons, C3-4-rich68512-petroleum distillate petroleum91-4gas (1.3 butadiene < 0.1%)	270- 990-9	(note2)	10-30	Press. Gas H280 Flam. Gas 1 H220	(note3)

containers fitted with a sealed spray attachment.
 Exempted from the obligation to register in accordance with art.2(7)(a) of REACH Regulation No 1907/2006

Not classified as carcinogen, less than 0.1% w/w 1,3 butadiene (EINECS no 203-450-8)

Note: Hazard statement(s) in this section apply only to raw materials, not necessarily to finished products.

*See Section 16 for hazard statement(s) text in full.

SECTI	ON 4 FIRST AID MEASU	RES
4.1	Description of first aid measures: General notes:	If symptoms persist, seek medical attention. Show this safety data sheet to the doctor in attendance.
	Following inhalation:	Remove to fresh air. Keep at rest. If not breathing give artificial respiration. Seek prompt medical attention if discomfort persists.
	Following skin contact:	Flush with water, use soap if available. Contaminated clothing should be washed before re-use. Seek medical attention if irritation persists.
	Following eye contact:	Flush eyes with large amounts of water for at least 15 minutes with eyelids held open. Seek medical attention if irritation persists.
	Following ingestion:	Unlikely route of exposure. Rinse mouth with water. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach contents don't enter the lungs. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
	Self-protection of the first aider:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate personal protective equipment.

4.2 Most important symptoms, both acute and delayed:

Prolonged skin contact may cause redness and irritation.
 In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.
 Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation. Avoid vomiting and normal rinse of stomach because of risk of aspiration. May cause discomfort to the eyes. Symptoms: redness and pain.
 Indication of any immediate medical attention and special treatment needed: None known.

SECTION	ON 5 FIREFIGHTING MEAS	URES
5.1	Extinguishing media:	
	Suitable extinguishing media:	Carbon dioxide, foam, dry chemical, water fog or spray.
	Unsuitable extinguishing media:	Do not use water jet.
5.2	Special hazards arising from the	Evacuate immediate area. Shut off 'fuel' to
	substance or mixture:	fire. If possible keep unaffected containers cool with water spray.
		Aerosols may explode in a fire.
	Hazardous combustion products:	Aerosol contents are extremely flammable. Smoke, soot and oxides of carbon. Burning vapour may give off toxic fumes.
5.3	Advice for fire-fighter:	
	Warn firefighters that aerosols are involve protective clothing must be worn. Water s Contaminated extinguishing water must b	
	regulations.	
SECTIO	ON 6 ACCIDENTAL RELEAS	SE MEASURES
61	Personal procautions, protective equin	mont and amarganey procedures:

6.1 Personal precautions, protective equipment and emergency procedures: Suitable protective equipment (see Section 8) should be worn to prevent any contamination of skin, eyes and personal clothing. For non-emergency personnel: Remove ignition sources. Avoid breathing vapours, mist or gas.

For emergency responders:

6.2 Environmental precautions:

Prevent liquid from entering drains, sewers and watercourses. Notify the Environment Agency or water authorities if a major spillage occurs.

6.3 Methods and material for containment and cleaning up:

Eliminate sources of ignition. Take measures to prevent the build-up of electrostatic charge.

Avoid breathing vapours. Ventilate surrounding area.

For containment:

Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Place in a UN approved container for disposal.

Remove ignition sources. Avoid breathing vapours, mist or gas. Keep unnecessary

people at a safe distance.

Large spills should be pumped (using an earthed explosion proof pump) into UN approved containers pending disposal. Dispose of waste according to local/national regulations.

Do not flush away residues with water. No other information.

For cleaning up: Other information:

6.4

Reference to other sections:

For Personal Protective Equipment see Section 8. For disposal information see Section 13.

SECTIO	N 7 HANDLING & STORAGE	
7.1	Precautions for safer handling: Protective Measures:	Wear suitable protective clothing such as chemical resistant gloves, apron and goggles/face mask to protect from splashes. Ensure adequate exhaust ventilation when in use. Avoid contact with skin and eyes. Do not breathe product spray or mist. Risk of vapour concentration in low areas.
	Measures to prevent fire: Advice on general occupational	Aerosol contents are highly flammable and volatile. Keep away from sources of ignition – no smoking. Take measures to prevent the build-up of electrostatic charge. Equipment should be earthed. Use explosion proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Wash thoroughly after handling.
	hygiene:	
7.2	Conditions for safe storage, including an	
	Technical measures and storage conditions: Packaging materials:	Store in a cool dry area away from heat and sources of ignition. Store in original container.
	Requirements for storage rooms and vessels:	Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Recommended storage temperature 10 °C to 30 °C.
	Further information on storage	Rotate stock and check regularly for
7.3	conditions: Specific end use(s):	damaged items.
1.3	Recommendations:	Use only for Non Destructive Testing (NDT) applications.
	Industrial sector specific solutions:	See product data sheet for further information.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limit values:

Occupational exposure figures have been set for some of the components of this preparation based on GESTIS International Limit Values or manufacturers' recommendation.

		Limit value	e - 8 hours	Limit value -	short term
Ingredient name	Country	ppm	mg /m³	ppm	mg /m ³
Hydrocarbons, C7 – C9,	UK	241	1200		
isoalkanes					
Data obtained from GESTIS International Limit Values, EH40, supplier's SDS					

Note: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

Derived No Effect Level (DNEL) - Hydrocarbons, C7 - C9, isoalkanes

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Inhalation	Long term	Systemic	2035 mg/m ³
Worker	Dermal	Long term	Systemic	773 mg/kg bw/day

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accordance with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a government regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygenists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

Predicted No Effect Concentration (PNEC) - Hydrocarbons, C7 - C9, isoalkanes

Water - Fresh Water	No data available: testing technically not feasible
Water - Marine Water	No data available: testing technically not feasible
Water - Intermittent release	No data available: testing technically not feasible
Sediment - Fresh water	No data available: testing technically not feasible
Sediment - Marine water	No data available: testing technically not feasible
Soil	No data available: testing technically not feasible
Sewage Treatment plant	No data available: testing technically not feasible

8.2 Exposure controls:

Concentrations of product vapours and mists in the working atmosphere must be kept as low as is reasonably practicable. Exposure should be minimised by the use of appropriate containment, engineering control and ventilation measures. Where this is not possible, personal protective equipment should be worn as indicated below where appropriate.

Appropriate engineering controls:	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limits are not exceeded
Personal protection equipment: Eye and face protection:	Safety glasses with side-shields conforming to EN166.
Skin protection - hand:	 Protective gloves conforming to EN374-3. Use chemical resistant gloves recommended by glove manufacturer as being suitable for isoparaffins, if hand exposure is unavoidable. Protective gloves made of nitrile rubber are suitable, although other types may be more suitable in other circumstances. For prolonged exposure, recommended gloves with protective index 6, > 480 minutes permeation time according to EN374. Consult the glove manufacturer for exact
Skin protection – other:	breakthrough time. Glove manufacturer's directions for use should be observed. Wear impervious, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.

Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment. Filter type A. (EN 136, 140, 405, 149, 143) For higher level protection use type ABEK-P3 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under CEN standards.
Thermal hazards:	Not applicable.
Environmental exposure controls:	Avoid any release to the environment.
SECTION 9 PHYSICAL & CHEMICAL	PROPERTIES
9.1 Information on basic physical and chemic Appearance: Odour: Odour threshold: pH: Melting point/freezing point: Initial boiling point and boiling range: Flash point (PMCC): Evaporation rate (BuAc = 100): Flammability (solid, gas) (Limits in air): Upper/lower flammability or explosive limits: Vapour pressure: Vapour density (Air = 1): Relative density: Solubility: Partition coefficient: n-octanol/water: Auto-ignition temperature: Decomposition temperature: Viscosity (ASTM D445): Explosive properties: Oxidising properties:	cal properties: Aerosol containing mobile clear liquid. Mild hydrocarbon. No data available. Neutral. No data available. 113 – 143 °C. -40 °C (aerosol propellant). 155. No data available. 0.7 - 6.0% (Vol%) 1.627 kPa @ 20 °C. > 1. 0.72 g/cm ³ . Insoluble. No data available. > 200 °C. No data available. 0.86 mm ² /s @ 25 °C. Under normal conditions no danger of explosion. No data available.

Note: properties relate to the bulk product only unless otherwise stated.

9.2 Other information: No other information.

SECTIO	ON 10 STABILITY & REACTIVI	ТҮ
10.1	Reactivity:	No specific reactivity hazards associated with this product.
10.2	Chemical stability	Stable under normal conditions of use and applications.
10.3	Possibility of hazardous reactions:	No data available.
10.4	Conditions to avoid:	Keep away from sources of ignition, hot surfaces and direct sun light.
10.5	Incompatible materials:	Strong oxidising agents.
10.6	Hazardous decomposition materials:	None under normal conditions of use. Smoke, soot and oxides of carbon on combustion.

SECTION 11 TOXICOLOGICAL INFORMATION					
11.1	1.1 Information on toxicological effects: based on data for component materials.				
	Acute toxicity - oral:	Based on the available data, the classification criteria			
	Acute toxicity – dermal:	are not met. Based on the available data, the classification criteria are not met.			
	Acute toxicity – inhalation:	Based on the available data, the classification criteria are not met.			
	Skin corrosion/irritation:	Skin Irrit. 2 H315: Causes skin irritation.			
	Serious eye damage/irritation:	Based on the available data, the classification criteria are not met.			
	Respiratory sensitisation:	Data lacking.			
	Skin sensitisation:	Based on the available data, the classification criteria are not met.			
	Germ cell mutagenicity:	Based on the available data, the classification criteria are not met.			
	Carcinogencity:	Data lacking.			
	Reproductive toxicity:	Based on the available data, the classification criteria are not met.			
	STOT single exposure:	STOT Single Exp. 3 H336: May cause drowsiness or dizziness.			
	STOT repeated exposure:	Affected organs: central nervous system Route of exposure: inhalation Based on the available data, the classification criteria are not met.			
	Aspiration hazard:	Mixtures from Aerosol Dispensors - need not be classified as Asp. Tox. 1 - H304 as the aerosol spray is fine and a pool of product may not be formed in the mouth.			
		xposure and Potential Health Effects:			
	Inhalation:	Vapour concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects.			
	Ingestion:	Not a likely route of exposure. However, harmful: May cause lung damage if swallowed. Ingestion may cause irritation of the mouth, throat and digestive tract. Small amounts of product aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema.			
	Eye contact: Skin contact:	May cause redness and pain. Frequent or prolonged contact with the product may produce irritation and/or skin dryness and cracking. Product will have a de-fatting effect on the skin.			
	Toxicity Test Results: based on c	lata for component materials, where available.			

Hydrocarbons, C7 – C9, isoalkanes

Acute Toxicity – oral	LD50 (rat)	> 5000 mg/kg
Acute Toxicity – dermal	LD50 (rabbit)	> 2000 mg/kg
Acute Toxicity – inhalation	LC50 (rat)	21 mg/l (4 h; vapour)

Other Information:

No other information.

1

SECTION 12

ECOLOGICAL INFORMATION

Based on data for component materials 12.1 Toxicity:

Fish		Oncorhynchus mykiss		LL50	96h	18.4 mg/l
Aquatic I	nvertebrates	Daphnia magna		EL50	48h	2.4 mg/l
Aquatic F	Plants	Pseudokirchneriella subcapit	tata	EL50	72h	29 mg/l
12.2	Persistence	and degradability:	Hydroca Biodegra		– C9, isoa	alkanes -
12.3	Bioaccumula	ative potential:	No data	available.		
	(log Kow):	efficient: n-octanol/water ation factor (BCF):		available. available.		
12.4	Mobility in s	oil:	spread c	on the wate	er surface.	th water and will Product is
12.5	Results of P	BT and vPvB assessment:	This mix	ture does	not contai	apidly to air. n any d to be a PBT or
12.6	Other advers	se effects:	No data	available.		

13.1 Waste treatment methods:

Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation.

Product/packing disposal:	Empty containers may contain residual
	product and flammable vapours. Do not
	pierce or burn container, even after use.
	Do NOT remove labels. Keep away from
	sources of ignition.
Waste codes/waste designations	16 05 04* gases in pressure containers
according to LoW:	containing dangerous substances.

NOTE: Waste codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste code(s).

Waste treatment – relevant information:	Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation
Sewage disposal – relevant information:	Do not empty down the drain.
Other disposal recommendations:	Use a licensed waste contractor

SECTIC	DN 14 TRANSPO	RT INFORMAT	ΓΙΟΝ	
14.1	UN number:		ADR/RID: IMDG:	UN1950 UN1950
14.2	UN proper shipping name:		IATA: ADR/RID: IMDG: IATA:	UN1950 AEROSOLS, flammable AEROSOLS, flammable AEROSOLS, flammable
14.3	Transport hazard class(es):	:	ADR/RID: IMDG: IATA:	2.1 2.1 2.1
14.4	Packing group:		ADR/RID: IMDG: IATA:	N/A N/A N/A
14.5	Environmental hazards:		ADR/RID: IMDG: IATA:	Yes Marine Pollutant: Yes Yes
14.6	Special precautions for use ADR/RID – Tunnel code: IMDG – Ems: IATA/ICAO – PAX: IATA/ICAO – CAO:	er: (D) F-D, S-U 203 203		
14.7	Transport in bulk according Not applicable	g to Annex II o	f Marpol 73/78	and the IBC code:

SECTION 15 REGULATORY INFORMATION	
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations:

This data sheet complies with the requirements of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Safety data sheet as required by EC-Regulations 1907/2006 and REACH Annex II Amendment (EU) No. 2015/830.

Information according to 2013/10/EU and 2008/47/EC amendment of the aerosol directive 75/324/EEC.

This data sheet is complied according Dir 2013/10/EU, 2008/47/EEC amendment of the aerosol directive 75/324/EEC.

Extra label elements: Pressured container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Mixtures classified as Asp. Tox. 1 H304 need not be labelled when placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

National regulations (Germany):
Wassergefahrdungklasse (water
hazard class):
TechnischeAnleitungLuft (TA-Luft):

WGK 2 - Hazard to waters.

Class 5.2.5 Organic Substances, except dusts

15.2 Chemical safety assessment: No data available

SEC	TION 16	OTHER INFORMATION
(i)	Indication of Version 17.2	of changes: 2 updated in Section 1.3.
		s on the left hand side indicate an amendment from the previous version.
(ii)		ons and acronyms:
	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)
	CAS No.	Chemical Abstracts Service number
	CEN	European Committee for Standardisation
	CLP ECHA	Classification, Labelling Packaging Regulation; Regulation (EC) No 1272/2008 European Chemicals Agency
	ECHA EC50	Half Maximal Effective Concentration
	EC number	EINECS and ELINCS number
	EINECS	European Inventory of Existing Commercial Substances
	ELINCS	European List of notified Chemical Substances
	GHS	Globally Harmonized System
	IATA IMDG	International Air Transport Association International Maritime Dangerous Goods
	LC50	Lethal Concentration to 50% of a test population
	LD50	Lethal Dose to 50% of a test population
	MPI	Magnetic Particle Inspection
	NDT	Non-Destructive Testing
	OEL PBT	Occupational Exposure Limit
	PMCC	Persistent, Bioaccumulative and Toxic Substance Pensky-Martens closed cup method
	PPE	Personal Protection Equipment
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EC (No) 1907/2006
	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail (Reglement International concernant le transport des marchandises Dangereuses par chemin de fer)
	SDS	Safety Data Sheet
	STOT RE STOT SE	Specific Target Organ Toxicity, Repeat Exposure Specific Target Organ Toxicity, Single Exposure
	TA-Luft	Technical Instructions on Air Quality Control (Technische Anleitung zur
		Reinhaltung der Luft)
	vPvB	Very Persistent and Very Bioaccumulative
	WEL	Workplace Exposure Limit
(iii)	WGK Kev lite	German Water Hazard Class (Wassergefährdungsklasse) erature and sources of data:
(,	•	Supplier's safety data sheets for components listed in Section 3.
	•	European Chemicals Agency, http://echa.europa.eu/
	•	GESTIS International Limit Values Database,
		http://limitvalue.ifa.dguv.de/Webform_gw.aspx
	•	Occupational Exposure Limits EH40/2005.
	•	Commission regulation (EU) 2015/830.
	•	Control of Substances Hazardous to Health Regulations 2002. Hazardous waste regulations 2005.
	•	Health & Safety at Work Act 1974.
	•	Regulation (EC) No. 1907/2006 (REACH).
	•	Regulation (EC) No. 1272/2008 (CLP).

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):

Classification according to Regulation (EC) No 1272/2008	Classification procedure
Aerosol. 1: H222, H229	Test Method
Skin Irrit. 2: H315	Calculation Method
STOT SE3: H336:	Calculation Method
Aquatic Chronic 2: H411	Calculation Method

(v) Hazard statements (number and full text):

H220: Extremely flammable gas.

H225: Highly flammable liquid and vapour

H222: Extremely flammable aerosol.

H229: Pressurised container: may explode if heated.

H280: Contains gas under pressure; may burst if heated.

H304: May be fatal if swallowed and enters airways

H315: Causes skin irritation

H336: May cause drowsiness or dizziness

H411: Toxic to aquatic life with long lasting effects

Hazard Class and Category Code (full text):

Aerosol 1: Aerosol

Aquatic Chronic 2: Hazardous to the aquatic environment

Asp. Tox. 1: Aspiration hazard

Flam. Gas 1: Flammable Gas

Flam. Liq. 2: Flammable liquid

Press. Gas: Gases under pressure

Skin Irrit. 2: Skin corrosion/irritation

STOT SE 3: Specific target organ toxicity - single exposure

Relevant precautionary statements (number and full text):

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211: Do not spray on an open flame or other ignition source.

P251 Do not pierce of burn even after use.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well ventilated area.

P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P302+352: IF ON SKIN: Wash with soap and water

P362+P364: Take off contaminated clothing and wash it before reuse.

P264: Wash thoroughly after handling.

P501: Dispose of contents/container to hazardous waste or special collection point.

(vi) Training advice:

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Chemical hazard risk assessment. Provide adequate information, instruction and training to operators.

DISCLAIMER

The information and recommendations contained herein are based upon data believed to be up-todate and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391/EEC and 98/24/EC amended by Directive 2014/27/EU.

Revision summary:	Revision Comments	This SDS is valid from the Revision Date. If you require a SDS for the product manufactured before the Revision Date please contact us at support.eu@magnaflux.com.
	Revision Date Version	22.08.2018 17.2



Version 16.1 replaces Version 15.1 Revision date: 01.04.2016 According to (EU) No. 2015/830

SECTION	1 IDENTIFICATION OF THE COMPANY / UNDERTAKIN		MIXTURE AND OF THE	
1.1	Product identifier:	SPOTCHECK	B SKC-S - aerosol	
		uses advised against: Solvent cleaner used in penetrant inspection.		
	Uses advised against:		not recommended for any the identified uses above.	
1.3	Details of the supplier of the safety data sh Manufacturer: Address: Postcode: Telephone/fax number: Email address of competent person	data sheet Magnaflux® (A Division of ITW Ltd) Faraday Road, South Dorcan Industrial Estate, Swindon, UK SN3 5HE Telephone: +44 (0)1793 524566 Fax: +44 (0)1793 490459 Web: www.eu.magnaflux.con datasheets@magnaflux.co.uk		
	responsible for SDS: National contact:	None appointe	-	
1.4	Emergency telephone number: Opening hours: Other comments:	Office hours (G - 5pm, Friday 8	524566 (office hours) GMT) Monday - Thursday 8am aam - 4pm ephone service is provided in	

SECTION 2

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008 (CLP): Physical and Chemical Hazard: Aerosol 1 H222, H229 Health Hazard: Skin Irrit. 2 H315

Additional information

For full text of hazard statements and EU hazard statements see SECTION 16.

STOT SE 3 H336 Environmental Hazard: Aquatic Chronic 2 H411

No other information.

2.2 Label Elements:

Labelling according to regulation (EC) No 1272/2008 [CLP]



Signal Word:

Herend Statement(a)	11000. Eviter als flammable across
Hazard Statement(s):	H222: Extremely flammable aerosol.
	H229: Pressurised container: may burst if heated.
	H315: Causes skin irritation
	H336: May cause drowsiness or dizziness
	H411: Toxic to aquatic life with long lasting
	effects
Precautionary Statement(s):	P210: Keep away from heat, hot surfaces,
recountering clatement(5).	sparks, open flames and other ignition
	sources. No smoking.
	P211: Do not spray on an open flame or
	other ignition source.
	P251 Do not pierce of burn even after use.
	P410 + P412: Protect from sunlight. Do not
	expose to temperatures exceeding 50 °C.
	P261: Avoid breathing
	dust/fume/gas/mist/vapours/spray.
	P280: Wear protective gloves/protective
	clothing/eye protection/face protection.
	P501: Dispose of contents/container to
	hazardous waste or special collection point.
Supplementary Precautionary	P271: Use only outdoors or in a well ventilated area.
Statement(s):	P302+352: IF ON SKIN: Wash with soap
	and water
	P264: Wash thoroughly after handling.
	P362+P364: Take off contaminated clothing
	and wash it before reuse.
Supplementary Hazard Information	None
(EU)	
Hazard Determining Component(s)	Hydrocarbons, C7 – C9, isoalkanes

2.3 Other hazards:

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Vapours can form explosive mixtures with air.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIE

3.2 **Mixtures**

Ingredient Name	CAS No	EC No	REACH Registration Number	% Weight	Classification according to Regulation (EC) No 1272/2008 [CLP]	Additional information
Hydrocarbons, C7- C9, isoalkanes		921- 728-3	01- 2119471305- 42	60 -100	Flam. Liq 2: H225 Skin Irrit. 2: H315 STOT SE3: H336 Asp. Tox. 1: H304 (note1) Aquatic Chronic 2: H411	No other information
petroleum distillate petroleum 91-4 990-9 Flam. Gas 1 H220 gas (1.3 butadiene < 0.1%)			(note3)			
1. Mixtures classified as Asp. Tox. 1 H304 need not be labelled when placed on the market in aerosol containers or in						

containers fitted with a sealed spray attachment.

Exempted from the obligation to register in accordance with art.2(7)(a) of REACH Regulation No 1907/2006 Not classified as carcinogen, less than 0.1% w/w 1,3 butadiene (EINECS no 203-450-8) 2.

3.

Note: Hazard statement(s) in this section apply only to raw materials, not necessarily to finished products.

*See Section 16 for hazard statement(s) text in full.

SECTION	I 4 FIRST AID MEASURES	
4.1	Description of first aid measures: General notes:	If symptoms persist, seek medical attention. Show this safety data sheet to the doctor in
	Following inhalation:	attendance. Remove to fresh air. Keep at rest. If not breathing give artificial respiration. Seek prompt medical attention if discomfort persists.
	Following skin contact:	Flush with water, use soap if available. Contaminated clothing should be washed before re-use. Seek medical attention if irritation persists.
	Following eye contact:	Flush eyes with large amounts of water for at least 15 minutes with eyelids held open. Seek medical attention if irritation persists.
	Following ingestion:	Unlikely route of exposure. Rinse mouth with water. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach contents don't enter the lungs. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
	Self-protection of the first aider:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate personal protective equipment.

4.2 Most important symptoms, both acute and delayed: Prolonged skin contact may cause redness and irritation. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation. Avoid vomiting and normal rinse of stomach because of risk of aspiration. May cause discomfort to the eyes. Symptoms: redness and pain. 4.3 Indication of any immediate medical attention and special treatment needed: None known.

SECTI	SECTION 5 FIREFIGHTING MEASURES				
5.1	Extinguishing media: Suitable extinguishing media:	Carbon dioxide, foam, dry chemical, water fog or spray.			
	Unsuitable extinguishing media:	Do not use water jet.			
5.2	Special hazards arising from the substance or mixture:	Evacuate immediate area. Shut off 'fuel' to fire. If possible keep unaffected containers cool with water spray. Aerosols may explode in a fire. Aerosol contents are extremely flammable.			
	Hazardous combustion products:	Smoke, soot and oxides of carbon. Burning vapour may give off toxic fumes.			
5.3	Advice for fire-fighter: Warn firefighters that aerosols are involved protective clothing must be worn. Water s	d. Self contained breathing apparatus and full			

SECTIC	TION 6 ACCIDENTAL RELEASE MEASURES		
6.1	For emergency responders:vapours, mist oRemove ignition vapours, mist o	to prevent any n sources. Avoid breathing r gas. n sources. Avoid breathing r gas. Keep unnecessary	
6.2	people at a safe Environmental precautions: Prevent liquid from entering drains, sewers and watercourses. Agency or water authorities if a major spillage occurs.		
6.3	combustible ab earth, diatomac Place in a UN a disposal. Large spills sho earthed explosi approved conta Dispose of was regulations.	e, and then collect with non- sorbent material, (e.g. sand, ceous earth, vermiculite). approved container for ould be pumped (using an on proof pump) into UN niners pending disposal. te according to local/national way residues with water.	
6.4	Other Information: No other inform Reference to other sections: For Personal Protective Equipment see Section 8. For dispose 13.		
SECTION 7 HANDLING & STORAGE			

7.1	Precautions for safer handling: Protective Measures:	Wear suitable protective clothing such as
		chemical resistant gloves, apron and goggles/face mask to protect from splashes. Ensure adequate exhaust ventilation when in use.
		Avoid contact with skin and eyes. Do not breathe product spray or mist. Risk of vapour concentration in low areas.
	Measures to prevent fire:	Aerosol contents are highly flammable and volatile. Keep away from sources of ignition – no smoking.
		Take measures to prevent the build-up of electrostatic charge. Equipment should be earthed. Use
		explosion proof electrical/ventilating/lighting equipment. Use only non-sparking tools.
	Advice on general occupational hygiene:	Wash thoroughly after handling.

1

7.2	Conditions for safe storage, including any Technical measures and storage conditions: Packaging materials:	incompatibilities: Store in a cool dry area away from heat and sources of ignition. Store in original container.
	Requirements for storage rooms and vessels:	Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Recommended storage temperature 10 °C to 30 °C.
7.3	Further information on storage conditions: Specific end use(s):	Rotate stock and check regularly for damaged items.
7.5	Recommendations:	Use only for Non Destructive Testing (NDT) applications.
	Industrial sector specific solutions:	See product data sheet for further information.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limit values:

Occupational exposure figures have been set for some of the components of this preparation based on GESTIS International Limit Values or manufacturers' recommendation.

		Limit value - 8 hours		Limit value - short terr	
Ingredient name	Country	ppm	mg /m ³	ppm	mg /m ³
Hydrocarbons, C7 – C9, isoalkanes	UK	241	1200		
Data obtained from GEST	IS International Lim	it Values. EH4	0. supplier's SI	DS	

Note: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

Derived No Effect Level (DNEL) - Hydrocarbons, C7 – C9, isoalkanes

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Inhalation	Long term	Systemic	2035 mg/m ³
Worker	Dermal	Long term	Systemic	773 mg/kg bw/day

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accordance with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a government regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygenists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

Predicted No Effect Concentration (PNEC) - Hydrocarbons, C7 - C9, isoalkanes

Water - Fresh Water	No data available: testing technically not feasible
Water - Marine Water	No data available: testing technically not feasible
Water - Intermittent release	No data available: testing technically not feasible
Sediment - Fresh water	No data available: testing technically not feasible
Sediment - Marine water	No data available: testing technically not feasible
Soil	No data available: testing technically not feasible
Sewage Treatment plant	No data available: testing technically not feasible

8.2 Exposure controls:

Concentrations of product vapours and mists in the working atmosphere must be kept as low as is reasonably practicable. Exposure should be minimised by the use of appropriate containment, engineering control and ventilation measures. Where this is not possible, personal protective equipment should be worn as indicated below where appropriate.

omen	t should be worn as indicated below where approp	priate.
	Appropriate engineering controls:	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limits are not exceeded
	Personal protection equipment:	
	Eye and face protection:	Safety glasses with side-shields
	Skin protection - hand:	conforming to EN166. Protective gloves conforming to EN374-3. Use chemical resistant gloves recommended by glove manufacturer as being suitable for isoparaffins , if hand exposure is unavoidable. Protective gloves made of nitrile rubber are suitable, although other types may be more suitable in other circumstances. For prolonged exposure, recommended gloves with protective index 6, > 480 minutes permeation time according to EN374.
	Skin protection – other:	Consult the glove manufacturer for exact breakthrough time. Glove manufacturer's directions for use should be observed. Wear impervious, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.
	Respiratory protection: Thermal hazards:	In case of insufficient ventilation, wear suitable respiratory equipment. Filter type A. (EN 136, 140, 405, 149, 143) For higher level protection use type ABEK-P3 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under CEN standards. Not applicable.
	Environmental exposure controls:	Avoid any release to the environment.

SECTION 9

PHYSICAL & CHEMICAL PROPERTIES

9.1	Information on basic physical and chemi	Information on basic physical and chemical properties:		
	Appearance:	Aerosol containing mobile clear liquid.		
	Odour:	Mild hydrocarbon.		
	Odour threshold:	No data available.		
	pH:	Neutral.		
	Melting point/freezing point:	No data available.		
	Initial boiling point and boiling range:	113 – 143 °C.		
	Flash point (PMCC):	-40 °C (aerosol propellant).		
	Evaporation rate (BuAc = 100):	155.		
	Flammability (solid, gas) (Limits in air):	No data available.		
	Upper/lower flammability or explosive	0.7 – 6.0% (Vol%)		
	limits:			

Vapour pressure: Vapour density (Air = 1): Relative density: Solubility: Partition coefficient: n-octanol/water: Auto-ignition temperature: Decomposition temperature: Viscosity (ASTM D445): Explosive properties: 1.627 kPa @ 20 °C. > 1. 0.72 g/cm^3 . Insoluble. No data available. > 200 °C. No data available. 0.86 mm^2 /s @ 25 °C. Under normal conditions no danger of explosion. No data available.

Note: properties relate to the bulk product only unless otherwise stated.

9.2 Other information:

No other information.

Oxidising properties:

SECTION 10 STABILITY & REACTIVITY		
10.1	Reactivity:	No specific reactivity hazards associated with this product.
10.2	Chemical stability	Stable under normal conditions of use and applications.
10.3	Possibility of hazardous reactions:	No data available.
10.4	Conditions to avoid:	Keep away from sources of ignition, hot surfaces and direct sun light.
10.5	Incompatible materials:	Strong oxidising agents.
10.6	Hazardous decomposition materials:	None under normal conditions of use. Smoke, soot and oxides of carbon on combustion.

SECTION 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: based on data for component materials.

Acute toxicity - oral:	Based on the available data, the classification criteria are not met.
Acute toxicity – dermal:	Based on the available data, the classification criteria are not met.
Acute toxicity – inhalation:	Based on the available data, the classification criteria are not met.
Skin corrosion/irritation:	Skin Irrit. 2 H315: Causes skin irritation.
Serious eye damage/irritation:	Based on the available data, the classification criteria are not met.
Respiratory sensitisation:	Data lacking.
Skin sensitisation:	Based on the available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on the available data, the classification criteria are not met.
Carcinogencity:	Data lacking.
Reproductive toxicity:	Based on the available data, the classification criteria are not met.

STOT single exposure: STOT repeated exposure: Aspiration hazard:	 STOT Single Exp. 3 H336: May cause drowsiness or dizziness. Affected organs: central nervous system Route of exposure: inhalation Based on the available data, the classification criteria are not met. Mixtures from Aerosol Dispensors - need not be classified as Asp. Tox. 1 - H304 as the aerosol spray is fine and a pool of product may not be formed in the mouth.
Information on likely Routes of Exposure Inhalation:	e and Potential Health Effects: Vapour concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system
Ingestion:	effects. Not a likely route of exposure. However, harmful: May cause lung damage if swallowed. Ingestion may cause irritation of the mouth, throat and digestive tract. Small amounts of product aspirated into the respiratory system during ingestion or from
Eye contact: Skin contact:	vomiting may cause bronchopneumonia or pulmonary edema. May cause redness and pain. Frequent or prolonged contact with the product may produce irritation and/or skin dryness and cracking. Product will have a de- fatting effect on the skin.

Toxicity Test Results: based on data for component materials, where available.

Hydrocarbons, C7 – C9, isoalkanes

Acute Toxicity – oral	LD50 (rat)	> 5000 mg/kg
Acute Toxicity – dermal	LD50 (rabbit)	> 2000 mg/kg
Acute Toxicity – inhalation	LC50 (rat)	21 mg/l (4 h; vapour)

Other Information:

No other information.

SECTION 12 ECOLOGICAL INFORMATION

Based on data for component materials 12.1 Toxicity:

Hydrocarbons, C7 – C9, isoalkanes

Fish	Oncorhynchus mykiss		LL50	96h	18.4 mg/l
Aquatic Invertebrates	Daphnia magna		EL50	48h	2.4 mg/l
Aquatic Plants	Pseudokirchneriella subcapitata		EL50	72h	29 mg/l
12.2 Persistence	and degradability:	Hydroca	rbons, C7 -	– C9, isoalk	anes -

12.3 Bioaccumulative potential: Biodegradable. No data available. No data available. Partition coefficient: n-octanol/water (log Kow): No data available. Bioconcentration factor (BCF): No data available.

12.4	Mobility in soil:	The product is immiscible with water and will spread on the water surface. Product is	
12.5	Results of PBT and vPvB assessment:	highly volatile - will partition rapidly to air. This mixture does not contain any substances that are assessed to be a PBT or vPvB.	
12.6	Other adverse effects:	No data available.	
SECTIO	N 13 DISPOSAL CONSIDER	ATIONS	
13.1	.1 Waste treatment methods: Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation.		
	Product/packing disposal:	Empty containers may contain residual product and flammable vapours. Do not pierce or burn container, even after use. Do NOT remove labels. Keep away from sources of ignition.	
	Waste codes/waste designations according to LoW:	16 05 04* gases in pressure containers containing dangerous substances.	
NOTE: Waste codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste code(s).			

Waste treatment – relevant information:	Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation
Sewage disposal – relevant information:	Do not empty down the drain.
Other disposal recommendations:	Use a licensed waste contractor

SECTION 14 TRANSPORT INFORMATION				
14.1	UN number:	ADR/RID: IMDG:	UN1950 UN1950	
14.2	UN proper shipping name:	IATA: ADR/RID: IMDG: IATA:	UN1950 AEROSOLS, flammable AEROSOLS, flammable AEROSOLS, flammable	
14.3	Transport hazard class(es):	ADR/RID: IMDG: IATA:	2.1 2.1 2.1	
14.4	Packing group:	ADR/RID: IMDG: IATA:	N/A N/A N/A	
14.5	Environmental hazards:	ADR/RID: IMDG: IATA:	Yes Marine Pollutant: Yes Yes	

14.6	Special precautions for use	r:
	ADR/RID – Tunnel code:	(D)
	IMDG – Ems:	F-D, S-U
	IATA/ICAO – PAX:	203
	IATA/ICAO – CAO:	203
14.7	Transport in bulk according	to Annex II of Marpol 73/78 and the IBC code:
	Not applicable	

SECTION 15 REGULATORY INFORMATION 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: EU Regulations: This data sheet complies with the requirements of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures. Safety data sheet as required by EC-Regulations 1907/2006 and REACH Annex II Amendment (EU) No. 2015/830. Information according to 2013/10/EU and 2008/47/EC amendment of the aerosol directive 75/324/EEC. This data sheet is complied according Dir 2013/10/EU, 2008/47/EEC amendment of the aerosol directive 75/324/EEC. Extra label elements: Pressured container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Mixtures classified as Asp. Tox. 1 H304 need not be labelled when placed on the market in aerosol containers or in containers fitted with a sealed spray attachment. National regulations (Germany): Wassergefahrdungklasse (water WGK 2 - Hazard to waters. hazard class):

Chemical safety assessment:

Class 5.2.5 Organic Substances, except dusts

15.2 No data available

SECTION 16 OTHER INFORMATION

TechnischeAnleitungLuft (TA-Luft):

(i) Indication of changes:

This safety data sheet has been updated to meet the requirements of Regulation EU No 2015/830 and Regulation (EC) No 1272/2008. Removal of the Classification according to 67/548/EEC as amended & Directive 1999/45/EC. Version 16.1 also updated in Section 8 due to updated safety information.

Vertical lines on the left hand side indicate an amendment from the previous version.

(ii) Abbreviations and acronyms:

- ADR European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route) CAS No.
 - **Chemical Abstracts Service number** European Committee for Standardisation CEN
- CLP Classification, Labelling Packaging Regulation; Regulation (EC) No 1272/2008
- European Chemicals Agency ECHA
- Half Maximal Effective Concentration EC50
- **EINECS and ELINCS number** EC number
- European Inventory of Existing Commercial Substances EINECS
- **ELINCS** European List of notified Chemical Substances
- **Globally Harmonized System** GHS
- International Air Transport Association IATA
- IMDG International Maritime Dangerous Goods

(iii)

LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population
MPI	Magnetic Particle Inspection
NDT	Non-Destructive Testing
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic Substance
PMCC	Pensky-Martens closed cup method
PPE	Personal Protection Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EC (No) 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	(Reglement International concernant le transport des marchandises Dangereuses
	par chemin de fer)
SDS	Safety Data Sheet
STOT RE	Specific Target Organ Toxicity, Repeat Exposure
STOT SE	Specific Target Organ Toxicity, Single Exposure
TA-Luft	Technical Instructions on Air Quality Control (Technische Anleitung zur
	Reinhaltung der Luft)
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limit
WGK	German Water Hazard Class (Wassergefährdungsklasse)
-	rature and sources of data:
	Supplier's safety data sheets for components listed in Section 3.
	European Chemicals Agency, http://echa.europa.eu/
	GESTIS International Limit Values Database,
	http://limitvalue.ifa.dguv.de/Webform_gw.aspx
•	Occupational Exposure Limits EH40/2005.
•	Commission regulation (EU) 2015/830.
•	Control of Substances Hazardous to Health Regulations 2002.
•	Hazardous waste regulations 2005.
•	Health & Safety at Work Act 1974.
•	REACH Directive (EC) 1907/2006.
••••••	

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):

Classification according to Regulation (EC) No 1272/2008	Classification procedure
Aerosol. 1: H222, H229	Test Method
Skin Irr. 2: H315	Calculation Method
STOT SE3: H336:	Calculation Method
Aquatic Chronic 2: H411	Calculation Method

(v)	Hazard statements (number and full text): H220: Extremely flammable gas. H225: Highly flammable liquid and vapour H222: Extremely flammable aerosol. H229: Pressurised container: may explode if heated. H280: Contains gas under pressure; may burst if heated. H304: May be fatal if swallowed and enters airways H315: Causes skin irritation H336: May cause drowsiness or dizziness H411: Toxic to aquatic life with long lasting effects Hazard Class and Category Code (full text): Aerosol 1: Aerosol Aquatic Chronic 2: Hazardous to the aquatic environment Asp. Tox. 1: Aspiration hazard Flam. Gas 1: Flammable Gas Flam. Liq. 2: Flammable liquid Press. Gas: Gases under pressure Skin Irrit. 2: Skin corrosion/irritation
	Skin Irrit. 2: Skin corrosion/irritation STOT SE 3: Specific target organ toxicity - single exposure

Relevant precautionary statements (number and full text): P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251 Do not pierce of burn even after use. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P271: Use only outdoors or in a well ventilated area. P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P280: Wear protective gloves/protective clothing/eve protection/face protection P302+352: IF ON SKIN: Wash with soap and water P362+P364: Take off contaminated clothing and wash it before reuse. P264: Wash thoroughly after handling. P501: Dispose of contents/container to hazardous waste or special collection point. (vi) Training advice: Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Chemical hazard risk assessment. Provide adequate information, instruction and training to operators.

DISCLAIMER

The information and recommendations contained herein are based upon data believed to be up-todate and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391/EEC and 98/24/EC amended by Directive 2014/27/EU.

Revision summary:	Revision Comments	This SDS is valid from the Revision Date. If you require a SDS for the product manufactured before the Revision Date please contact us at datasheets@magnaflux.co.uk.
	Revision Date Version	01.04.2016 16.1



Version 16.1 replaces Version 15.1 Revision date: 01.04.2016 According to (EU) No. 2015/830

SECTION	1 IDENTIFICATION OF THE COMPANY / UNDERTAKIN		MIXTURE AND OF THE
1.1	Product identifier:	SPOTCHECK	® SKC-S - aerosol
1.2	Relevant identified uses of the mixture and Relevant identified uses:		against: r used in penetrant
	Uses advised against:		not recommended for any the identified uses above.
1.3	Details of the supplier of the safety data sh Manufacturer: Address: Postcode: Telephone/fax number:	Magnaflux® (A	Division of ITW Ltd) South Dorcan Industrial on, UK +44 (0)1793 524566 +44 (0)1793 490459 www.eu.magnaflux.com
	Email address of competent person responsible for SDS: National contact:		nagnaflux.co.uk
1.4	Emergency telephone number: Opening hours: Other comments:	Office hours (G - 5pm, Friday 8	524566 (office hours) GMT) Monday - Thursday 8am Bam - 4pm ephone service is provided in

SECTION 2

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008 (CLP): Physical and Chemical Hazard: Aerosol 1 H222, H229 Health Hazard: Skin Irrit. 2 H315

Additional information

For full text of hazard statements and EU hazard statements see SECTION 16.

STOT SE 3 H336 Environmental Hazard: Aquatic Chronic 2 H411

No other information.

2.2 Label Elements:

Labelling according to regulation (EC) No 1272/2008 [CLP]



Signal Word:

Herend Statement(a)	11000. Eviter als flammable across
Hazard Statement(s):	H222: Extremely flammable aerosol.
	H229: Pressurised container: may burst if heated.
	H315: Causes skin irritation
	H336: May cause drowsiness or dizziness
	H411: Toxic to aquatic life with long lasting
	effects
Precautionary Statement(s):	P210: Keep away from heat, hot surfaces,
recountering clatement(5).	sparks, open flames and other ignition
	sources. No smoking.
	P211: Do not spray on an open flame or
	other ignition source.
	P251 Do not pierce of burn even after use.
	P410 + P412: Protect from sunlight. Do not
	expose to temperatures exceeding 50 °C.
	P261: Avoid breathing
	dust/fume/gas/mist/vapours/spray.
	P280: Wear protective gloves/protective
	clothing/eye protection/face protection.
	P501: Dispose of contents/container to
	hazardous waste or special collection point.
Supplementary Precautionary	P271: Use only outdoors or in a well ventilated area.
Statement(s):	P302+352: IF ON SKIN: Wash with soap
	and water
	P264: Wash thoroughly after handling.
	P362+P364: Take off contaminated clothing
	and wash it before reuse.
Supplementary Hazard Information	None
(EU)	
Hazard Determining Component(s)	Hydrocarbons, C7 – C9, isoalkanes

2.3 Other hazards:

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Vapours can form explosive mixtures with air.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIE

3.2 **Mixtures**

Ingredient Name	CAS No	EC No	REACH Registration Number	% Weight	Classification according to Regulation (EC) No 1272/2008 [CLP]	Additional information
Hydrocarbons, C7- C9, isoalkanes		921- 728-3	01- 2119471305- 42	60 -100	Flam. Liq 2: H225 Skin Irrit. 2: H315 STOT SE3: H336 Asp. Tox. 1: H304 (note1) Aquatic Chronic 2: H411	No other information
Hydrocarbons, C3-4-rich petroleum distillate petroleum gas (1.3 butadiene < 0.1%)	68512- 91-4	270- 990-9	(note2)	10-30	Press. Gas H280 Flam. Gas 1 H220	(note3)
1. Mixtures classified as Asp. Tox. 1 H304 need not be labelled when placed on the market in aerosol containers or in						

containers fitted with a sealed spray attachment.

Exempted from the obligation to register in accordance with art.2(7)(a) of REACH Regulation No 1907/2006 Not classified as carcinogen, less than 0.1% w/w 1,3 butadiene (EINECS no 203-450-8) 2.

3.

Note: Hazard statement(s) in this section apply only to raw materials, not necessarily to finished products.

*See Section 16 for hazard statement(s) text in full.

SECTION	I 4 FIRST AID MEASURES	
4.1	Description of first aid measures: General notes:	If symptoms persist, seek medical attention. Show this safety data sheet to the doctor in
	Following inhalation:	attendance. Remove to fresh air. Keep at rest. If not breathing give artificial respiration. Seek prompt medical attention if discomfort persists.
	Following skin contact:	Flush with water, use soap if available. Contaminated clothing should be washed before re-use. Seek medical attention if irritation persists.
	Following eye contact:	Flush eyes with large amounts of water for at least 15 minutes with eyelids held open. Seek medical attention if irritation persists.
	Following ingestion:	Unlikely route of exposure. Rinse mouth with water. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach contents don't enter the lungs. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
	Self-protection of the first aider:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate personal protective equipment.

4.2 Most important symptoms, both acute and delayed: Prolonged skin contact may cause redness and irritation. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation. Avoid vomiting and normal rinse of stomach because of risk of aspiration. May cause discomfort to the eyes. Symptoms: redness and pain. 4.3 Indication of any immediate medical attention and special treatment needed: None known.

SECTIO	ON 5 FIREFIGHTING MEASU	RES
5.1	Extinguishing media: Suitable extinguishing media:	Carbon dioxide, foam, dry chemical, water fog or spray.
	Unsuitable extinguishing media:	Do not use water jet.
5.2	Special hazards arising from the substance or mixture:	Evacuate immediate area. Shut off 'fuel' to fire. If possible keep unaffected containers cool with water spray. Aerosols may explode in a fire. Aerosol contents are extremely flammable.
	Hazardous combustion products:	Smoke, soot and oxides of carbon. Burning vapour may give off toxic fumes.
5.3	Advice for fire-fighter: Warn firefighters that aerosols are involved protective clothing must be worn. Water sp	I. Self contained breathing apparatus and full

SECTIO	N 6 ACCIDENTAL RELEASE N	MEASURES	
6.1	Personal precautions, protective equipmen Suitable protective equipment (see Section 8) contamination of skin, eyes and personal cloth For non-emergency personnel: For emergency responders:	should be worn to prevent any	
6.2	Environmental precautions: Prevent liquid from entering drains, sewers ar Agency or water authorities if a major spillage	d watercourses. Notify the Environment	
6.3	Methods and material for containment and Eliminate sources of ignition. Take measures charge. Avoid breathing vapours. Ventilate surroundin For containment: For cleaning up: Other information:	to prevent the build-up of electrostatic	
6.4	Reference to other sections: For Personal Protective Equipment see Section 13.	on 8. For disposal information see Section	
SECTION 7 HANDLING & STORAGE			

7.1	Precautions for safer handling: Protective Measures:	Wear suitable protective clothing such as chemical resistant gloves, apron and goggles/face mask to protect from splashes.
		Ensure adequate exhaust ventilation when in use. Avoid contact with skin and eyes. Do not breathe product spray or mist. Risk of vapour concentration in low areas.
	Measures to prevent fire:	Aerosol contents are highly flammable and volatile. Keep away from sources of ignition – no smoking. Take measures to prevent the build-up of electrostatic charge. Equipment should be earthed. Use
	Advice on general occupational hygiene:	explosion proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Wash thoroughly after handling.

1

7.2	Conditions for safe storage, including any Technical measures and storage conditions: Packaging materials:	incompatibilities: Store in a cool dry area away from heat and sources of ignition. Store in original container.
	Requirements for storage rooms and vessels:	Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Recommended storage temperature 10 °C to 30 °C.
7.3	Further information on storage conditions: Specific end use(s):	Rotate stock and check regularly for damaged items.
7.5	Recommendations:	Use only for Non Destructive Testing (NDT) applications.
	Industrial sector specific solutions:	See product data sheet for further information.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limit values:

Occupational exposure figures have been set for some of the components of this preparation based on GESTIS International Limit Values or manufacturers' recommendation.

		Limit value	e - 8 hours	Limit value	- short term
Ingredient name	Country	ppm	mg /m ³	ppm	mg /m ³
Hydrocarbons, C7 – C9, isoalkanes	UK	241	1200		
Data obtained from GESTIS International Limit Values. EH40. supplier's SDS					

Note: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

Derived No Effect Level (DNEL) - Hydrocarbons, C7 – C9, isoalkanes

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Inhalation	Long term	Systemic	2035 mg/m ³
Worker	Dermal	Long term	Systemic	773 mg/kg bw/day

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accordance with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a government regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygenists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

Predicted No Effect Concentration (PNEC) - Hydrocarbons, C7 - C9, isoalkanes

Water - Fresh Water	No data available: testing technically not feasible
Water - Marine Water	No data available: testing technically not feasible
Water - Intermittent release	No data available: testing technically not feasible
Sediment - Fresh water	No data available: testing technically not feasible
Sediment - Marine water	No data available: testing technically not feasible
Soil	No data available: testing technically not feasible
Sewage Treatment plant	No data available: testing technically not feasible

8.2 Exposure controls:

Concentrations of product vapours and mists in the working atmosphere must be kept as low as is reasonably practicable. Exposure should be minimised by the use of appropriate containment, engineering control and ventilation measures. Where this is not possible, personal protective equipment should be worn as indicated below where appropriate.

omen	t should be worn as indicated below where approp	priate.
	Appropriate engineering controls:	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limits are not exceeded
	Personal protection equipment:	
	Eye and face protection:	Safety glasses with side-shields
	Skin protection - hand:	conforming to EN166. Protective gloves conforming to EN374-3. Use chemical resistant gloves recommended by glove manufacturer as being suitable for isoparaffins , if hand exposure is unavoidable. Protective gloves made of nitrile rubber are suitable, although other types may be more suitable in other circumstances. For prolonged exposure, recommended gloves with protective index 6, > 480 minutes permeation time according to EN374.
	Skin protection – other:	Consult the glove manufacturer for exact breakthrough time. Glove manufacturer's directions for use should be observed. Wear impervious, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.
	Respiratory protection: Thermal hazards:	In case of insufficient ventilation, wear suitable respiratory equipment. Filter type A. (EN 136, 140, 405, 149, 143) For higher level protection use type ABEK-P3 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under CEN standards. Not applicable.
	Environmental exposure controls:	Avoid any release to the environment.

SECTION 9

PHYSICAL & CHEMICAL PROPERTIES

9.1	0.1 Information on basic physical and chemical properties:		
	Appearance:	Aerosol containing mobile clear liquid.	
	Odour:	Mild hydrocarbon.	
	Odour threshold:	No data available.	
	pH:	Neutral.	
	Melting point/freezing point:	No data available.	
	Initial boiling point and boiling range:	113 – 143 °C.	
	Flash point (PMCC):	-40 °C (aerosol propellant).	
	Evaporation rate (BuAc = 100):	155.	
	Flammability (solid, gas) (Limits in air):	No data available.	
	Upper/lower flammability or explosive	0.7 – 6.0% (Vol%)	
	limits:		

Vapour pressure: Vapour density (Air = 1): Relative density: Solubility: Partition coefficient: n-octanol/water: Auto-ignition temperature: Decomposition temperature: Viscosity (ASTM D445): Explosive properties: 1.627 kPa @ 20 °C. > 1. 0.72 g/cm^3 . Insoluble. No data available. > 200 °C. No data available. 0.86 mm^2 /s @ 25 °C. Under normal conditions no danger of explosion. No data available.

Note: properties relate to the bulk product only unless otherwise stated.

9.2 Other information:

No other information.

Oxidising properties:

SECTIO	ON 10 STABILITY & REACTIVI	тү
10.1	Reactivity:	No specific reactivity hazards associated with this product.
10.2	Chemical stability	Stable under normal conditions of use and applications.
10.3	Possibility of hazardous reactions:	No data available.
10.4	Conditions to avoid:	Keep away from sources of ignition, hot surfaces and direct sun light.
10.5	Incompatible materials:	Strong oxidising agents.
10.6	Hazardous decomposition materials:	None under normal conditions of use. Smoke, soot and oxides of carbon on combustion.

SECTION 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: based on data for component materials.

Acute toxicity - oral:	Based on the available data, the classification criteria are not met.
Acute toxicity – dermal:	Based on the available data, the classification criteria are not met.
Acute toxicity – inhalation:	Based on the available data, the classification criteria are not met.
Skin corrosion/irritation:	Skin Irrit. 2 H315: Causes skin irritation.
Serious eye damage/irritation:	Based on the available data, the classification criteria are not met.
Respiratory sensitisation:	Data lacking.
Skin sensitisation:	Based on the available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on the available data, the classification criteria are not met.
Carcinogencity:	Data lacking.
Reproductive toxicity:	Based on the available data, the classification criteria are not met.

STOT single exposure: STOT repeated exposure: Aspiration hazard:	 STOT Single Exp. 3 H336: May cause drowsiness or dizziness. Affected organs: central nervous system Route of exposure: inhalation Based on the available data, the classification criteria are not met. Mixtures from Aerosol Dispensors - need not be classified as Asp. Tox. 1 - H304 as the aerosol spray is fine and a pool of product may not be formed in the mouth.
Information on likely Routes of Exposure Inhalation:	e and Potential Health Effects: Vapour concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anaesthetic
Ingestion:	and may have other central nervous system effects. Not a likely route of exposure. However, harmful: May cause lung damage if swallowed. Ingestion may cause irritation of the mouth, throat and digestive tract. Small
Eye contact: Skin contact:	amounts of product aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. May cause redness and pain. Frequent or prolonged contact with the product may produce irritation and/or skin dryness and cracking. Product will have a de- fatting effect on the skin.

Toxicity Test Results: based on data for component materials, where available.

Hydrocarbons, C7 – C9, isoalkanes

Acute Toxicity – oral	LD50 (rat)	> 5000 mg/kg
Acute Toxicity – dermal	LD50 (rabbit)	> 2000 mg/kg
Acute Toxicity – inhalation	LC50 (rat)	21 mg/l (4 h; vapour)

Other Information:

No other information.

SECTION 12 ECOLOGICAL INFORMATION

Based on data for component materials 12.1 Toxicity:

Hydrocarbons, C7 – C9, isoalkanes

Fish	Oncorhynchus mykiss	LL50	96h	18.4 mg/l
Aquatic Invertebrates	Daphnia magna	EL50	48h	2.4 mg/l
Aquatic Plants	Pseudokirchneriella subcapitata	EL50	72h	29 mg/l

12.2	Persistence and degradability:	Hydrocarbons, C7 – C9, isoalkanes - Biodegradable.
12.3	Bioaccumulative potential:	No data available.
	Partition coefficient: n-octanol/water (log Kow):	No data available.
	Bioconcentration factor (BCF):	No data available.

12.4	Mobility in soil:	The product is immiscible with water and will spread on the water surface. Product is	
12.5	Results of PBT and vPvB assessment:	highly volatile - will partition rapidly to air. This mixture does not contain any substances that are assessed to be a PBT or vPvB.	
12.6	Other adverse effects:	No data available.	
SECTION 13 DISPOSAL CONSIDERATIONS			
13.1	13.1 Waste treatment methods: Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation.		
	Product/packing disposal:	Empty containers may contain residual product and flammable vapours. Do not pierce or burn container, even after use. Do NOT remove labels. Keep away from sources of ignition.	
	Waste codes/waste designations according to LoW:	16 05 04* gases in pressure containers containing dangerous substances.	
NOTE: Waste codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste code(s).			

Waste treatment – relevant information:	Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation
Sewage disposal – relevant information:	Do not empty down the drain.
Other disposal recommendations:	Use a licensed waste contractor

SECTION 14 TRANSPORT INFORMATION				
14.1	UN number:	ADR/RID: IMDG:	UN1950 UN1950	
14.2	UN proper shipping name:	IATA: ADR/RID: IMDG: IATA:	UN1950 AEROSOLS, flammable AEROSOLS, flammable AEROSOLS, flammable	
14.3	Transport hazard class(es):	ADR/RID: IMDG: IATA:	2.1 2.1 2.1	
14.4	Packing group:	ADR/RID: IMDG: IATA:	N/A N/A N/A	
14.5	Environmental hazards:	ADR/RID: IMDG: IATA:	Yes Marine Pollutant: Yes Yes	

14.6	Special precautions for use	r:	
	ADR/RID – Tunnel code:	(D)	
	IMDG – Ems:	F-D, S-U	
	IATA/ICAO – PAX:	203	
	IATA/ICAO – CAO:	203	
14.7	Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:		
	Not applicable		

 SECTION 15
 REGULATORY INFORMATION

 15.1
 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations:

This data sheet complies with the requirements of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Safety data sheet as required by EC-Regulations 1907/2006 and REACH Annex II Amendment (EU) No. 2015/830.

Information according to 2013/10/EU and 2008/47/EC amendment of the aerosol directive 75/324/EEC.

This data sheet is complied according Dir 2013/10/EU, 2008/47/EEC amendment of the aerosol directive 75/324/EEC.

Extra label elements: Pressured container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Mixtures classified as Asp. Tox. 1 H304 need not be labelled when placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

National regulations (Germany): Wassergefahrdungklasse (water hazard class): TechnischeAnleitungLuft (TA-Luft):

WGK 2 - Hazard to waters.

Class 5.2.5 Organic Substances, except dusts

15.2 Chemical safety assessment: No data available

SECTION 16	OTHER INFORMATION

(i) Indication of changes:

This safety data sheet has been updated to meet the requirements of Regulation EU No 2015/830 and Regulation (EC) No 1272/2008. Removal of the Classification according to 67/548/EEC as amended & Directive 1999/45/EC. Version 16.1 also updated in Section 8 due to updated safety information.

Vertical lines on the left hand side indicate an amendment from the previous version.

(ii) Abbreviations and acronyms:

- ADR European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)
 - CAS No. Chemical Abstracts Service number
 - CEN European Committee for Standardisation
- CLP Classification, Labelling Packaging Regulation; Regulation (EC) No 1272/2008
- ECHA European Chemicals Agency
- EC50 Half Maximal Effective Concentration
- EC number EINECS and ELINCS number
- EINECS European Inventory of Existing Commercial Substances
- ELINCS European List of notified Chemical Substances
- GHS Globally Harmonized System
- IATA International Air Transport Association
- IMDG International Maritime Dangerous Goods

SAFETY DATA SHEET

(iii)

LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population
MPI	Magnetic Particle Inspection
NDT	Non-Destructive Testing
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic Substance
PMCC	Pensky-Martens closed cup method
PPE	Personal Protection Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EC (No) 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	(Reglement International concernant le transport des marchandises Dangereuses
	par chemin de fer)
SDS	Safety Data Sheet
STOT RE	Specific Target Organ Toxicity, Repeat Exposure
STOT SE	Specific Target Organ Toxicity, Single Exposure
TA-Luft	Technical Instructions on Air Quality Control (Technische Anleitung zur
	Reinhaltung der Luft)
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limit
WGK	German Water Hazard Class (Wassergefährdungsklasse)
-	rature and sources of data:
	Supplier's safety data sheets for components listed in Section 3.
	European Chemicals Agency, http://echa.europa.eu/
	GESTIS International Limit Values Database,
	http://limitvalue.ifa.dguv.de/Webform_gw.aspx
•	Occupational Exposure Limits EH40/2005.
•	Commission regulation (EU) 2015/830.
•	Control of Substances Hazardous to Health Regulations 2002.
•	Hazardous waste regulations 2005.
•	Health & Safety at Work Act 1974.
•	REACH Directive (EC) 1907/2006.
••••••	

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):

Classification according to Regulation (EC) No 1272/2008	Classification procedure
Aerosol. 1: H222, H229	Test Method
Skin Irr. 2: H315	Calculation Method
STOT SE3: H336:	Calculation Method
Aquatic Chronic 2: H411	Calculation Method

(v)	Hazard statements (number and full text): H220: Extremely flammable gas. H225: Highly flammable liquid and vapour H222: Extremely flammable aerosol. H229: Pressurised container: may explode if heated. H280: Contains gas under pressure; may burst if heated. H304: May be fatal if swallowed and enters airways H315: Causes skin irritation H336: May cause drowsiness or dizziness H411: Toxic to aquatic life with long lasting effects Hazard Class and Category Code (full text): Aerosol 1: Aerosol Aquatic Chronic 2: Hazardous to the aquatic environment Asp. Tox. 1: Aspiration hazard Flam. Gas 1: Flammable Gas Flam. Liq. 2: Flammable liquid Press. Gas: Gases under pressure Skin Irrit. 2: Skin corrosion/irritation STOT SE 3: Specific target organ toxicity - single exposure

SAFETY DATA SHEET

Relevant precautionary statements (number and full text): P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251 Do not pierce of burn even after use. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P271: Use only outdoors or in a well ventilated area. P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P280: Wear protective gloves/protective clothing/eve protection/face protection P302+352: IF ON SKIN: Wash with soap and water P362+P364: Take off contaminated clothing and wash it before reuse. P264: Wash thoroughly after handling. P501: Dispose of contents/container to hazardous waste or special collection point. (vi) Training advice: Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Chemical hazard risk assessment. Provide adequate information, instruction and training to operators.

DISCLAIMER

The information and recommendations contained herein are based upon data believed to be up-todate and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391/EEC and 98/24/EC amended by Directive 2014/27/EU.

Revision summary:	Revision Comments	This SDS is valid from the Revision Date. If you require a SDS for the product manufactured before the Revision Date please contact us at datasheets@magnaflux.co.uk.
	Revision Date Version	01.04.2016 16.1

Revised On 01/11/2021

1 Identification of the substance and manufacturer		
Trade name:	SPRA-GALV PRIMER	
Product code: Recommended use: Uses advised against: Manufacturer/Supplier:	0000160845 Paint and coatings application. Any that differs from the recommended use. Seymour of Sycamore 917 Crosby Avenue Sycamore, IL 60178 USA phone: 815-895-9101 www.seymourpaint.com	
Emergency telephone number:	1-800-255-3924	
2 Hazard(s) identification		
Classification of the substance or	mixture	
Flam. Aerosol 1 H222 Extremely fla		
	under pressure; may explode if heated.	
Skin Irrit. 2 H315 Causes skin		
	fertility or the unborn child.	
	amage to organs through prolonged or repeated exposure.	
Additional information:		
GHS Hazard pictograms	$\land \land \land \land$	
	GHS02 GHS04 GHS07 GHS08	
Signal word Hazard statements	Danger Extremely flammable aerosol.	
	Contains gas under pressure; may explode if heated.	
	Causes skin irritation.	
	May damage fertility or the unborn child.	
Precautionary statements	May cause damage to organs through prolonged or repeated exposure. Obtain special instructions before use.	
Trecutionary statements	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
	Do not spray on an open flame or other ignition source.	
	Pressurized container: Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray.	
	Wash thoroughly after handling.	
	Store in a well-ventilated place.	
	Store locked up.	
	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Dispose of contents/container in accordance with local/regional/national/international regulations.	
	Dispose of contents/container in accordance with local/regional/national/international regulations.	

3 Composition/information on ingredients Chemical characterization: Mixtures

Chemical Descrip	tion: This product is a mixture of the substances listed below with nonhazardous additions.	
Dangerous compo		
108-88-3 Toluer	ie	≥15-<20%
74-98-6 propar		5-10%
110-19-0 Isobut		5-10%
106-97-8 n-buta		5-10%
64742-47-8 Minera	Il Spirits	5-10%

4 First-aid measures		
After inhalation: After skin contact: After eye contact: After swallowing: Most important symptoms and effects: Indication of any immediate medica attention needed:	Supply fresh air; consult doctor in case of complaints. Remove contaminated clothing. Wash exposed area with soap and water. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse mouth with water. Do not induce vomiting. Dizziness No further relevant information available.	
5 Fire-fighting measures		
Extinguishing agents: Special hazards: Protective equipment for firefighters:	CO2, extinguishing powder or water spray. Fight larger fires with water spray. Can form explosive gas-air mixtures. A respiratory protective device may be necessary.	

(Contd. on page 2)

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Trade name: SPRA-GALV PRIMER			
I rade name: SPRA-GALV PRIMER			
	(Contd. of page 1)		
6 Accidental release measures			
Personal precautions, protective			
equipment and emergency			
procedures: Methods and material for	Use respiratory protective device against the effects of fumes/dust/aerosol.		
containment and cleaning up:	Dispose contaminated material as waste according to section 13.		
7 Handling and storage			
Precautions for safe handling	Use only in well ventilated areas. Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions.		
Storage requirements:	Store locked up.		
	· · · · · · · · · · · · · · · · · · ·		
8 Exposure controls/personal pro	tection		
Components with limit values that	require monitoring at the workplace:		
108-88-3 Toluene			
PEL (USA) Long-term value: 200 ppr	n .00* nnm		
Ceiling limit value: 300; 5 *10-min peak per 8-hr shi	ift		
REL (USA) Short-term value: 560 mc	u/m ³ , 150 ppm		
Long-term value: 375 mg			
TLV (USA) Long-term value: 20 ppm BEI, NIC-OTO			
74-98-6 propane			
PEL (USA) Long-term value: 1800 m			
REL (USA) Long-term value: 1800 m			
TLV (USA) refer to Appendix F inTLV	/s&BEIs book; D, EX		
PEL (USA) Long-term value: 700 mg	/m³ 150 ppm		
REL (USA) Long-term value: 700 mg			
TLV (USA) Short-term value: 712 mc	u/m ³ , 150 ppm		
Long-term value: 238 mg	/m³, 50 ppm		
106-97-8 n-butane REL (USA) Long-term value: 1900 m	g/m³_800 ppm		
TLV (USA) Short-term value: 2370 m			
(EX)			
Hygienic protection:	Immediately remove all soiled and contaminated clothing. Wash hands after use.		
	Store protective clothing separately.		
	Avoid contact with the eyes and skin. Do not eat or drink while working.		
Breathing equipment:	A respirator is generally not necessary when using this product outdoors or in large open areas. In		
	cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygeine.		
Hand protection:	Nitrile gloves.		
-	The glove material must be impermeable and resistant to the substance.		
Eye protection:	Tightly sealed goggles		
9 Physical and chemical propertie			
Appearance:	Aerosol.		
Odor:	Aromatic		
Odor threshold:	Not determined.		
pH-value: Melting point/Melting range	Not determined. Undetermined.		
Boiling point:	-44 °C (-47.2 °F)		
Flash point:	-19 °C (-2.2 °F)		
Flammability (solid, gas):	Extremely flammable.		
Decomposition temperature:	Not determined.		
Auto igniting:	Product is not self-igniting.		
Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.		
Lower Explosion Limit: Upper Explosion Limit:	Not determined. Not determined.		
Vapor pressure:	Not determined.		
Relative Density:	Between 0.77 and 0.85 (Water equals 1.00)		
Vapor density	Not determined. (Contd. on page3)		

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Printing date 01/11/2021 Revised On 01/11/2021			
Trade name: SPRA-GALV PRIMER	Trade name: SPRA-GALV PRIMER		
	(Contd. of page 2)		
Evaporation rate Partition coefficient: n-octonal/wate	Not applicable.		
Solubility:	Not determined.		
Viscosity:	Not determined.		
10 Stability and reactivity			
Reactivity:	Stable at normal temperatures.		
Conditions to avoid:	Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing temperatures.		
Chemical stability:	Not fully evaluated.		
Possibility of hazardous reactions: Incompatible materials:	No dangerous reactions known. No further relevant information available.		
Hazardous decomposition:	No dangerous decomposition products known.		
11 Toxicological information			
LD/LC50 values that are relevant for	classification:		
110-19-0 Isobutyl Acetate			
Oral LD50 4,763 mg/kg (rbt) Information on toxicological effects	: No data available.		
Skin effects: Eye effects:	No irritant effect. Irritating effect.		
Sensitization:	No sensitizing effects known.		
12 Ecological information Aquatic toxicity:	Hazardous for water, do not empty into drains.		
Persistence and degradability:	The product is degradable after prolonged exposure to natural weathering processes.		
Other information:	This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), heavy metals (chromium, lead, cadmium), or chlorinated		
Bioaccumulative potential:	solvents.		
Mobility in soil: Other adverse effects:	No further relevant information available.		
Other adverse effects:	No further relevant information available.		
13 Disposal considerations			
Dispose of in accordance with local, s	tate, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be r cut empty containers with electric or gas torches.		
Recommendation:	Completely empty cans should be recycled.		
Recommended cleansing agent:	Water, if necessary with cleansing agents.		
14 Transport information			
UN-Number DOT	UN1950 UN1950		
DOT	Aerosols, flammable		
ADR Transport hazard class(es):	1950 Aerosols, ENVIRONMENTALLY HAZARDOUS		
Class	2.1 Symbol (fish and tree)		
Marine pollutant: Special precautions for user:	Warning: Gases		
EMS Number: Packaging Group:	F-D,S-U 		
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS		
15 Regulatory information			
SARA Section 355 (extremely hazard	dous substances):		
None of the ingredients in this product			
SARA Section 313 (Specific toxic ch	emical listings):		
7440-66-6 zinc powder 108-88-3 Toluene			
Toxic Substances Control Act			
(TSCA): Canadian Domestic Substances Lis	All hazardous ingredients are found on the inventory list of substances.		
(DSL):	All ingredients are listed or exempted.		
Consumer Product Safety Comission (CPSC):	This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.		
	(Contd. on page 4) 653		
	000		

Revised On 01/11/2021

(Contd. of page 3)

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Tra	Trade name: SPRA-GALV PRIMER		
	California Proposition 65 chemicals known to cause cancer:		
	None of the ingredients in this product are listed.		
	Prop 65 chemicals known to cause birth defects or reproductive harm:		
	108-88-3 Toluene		
	EPA:		
	7440-66-6 zinc powder		
	110-19-0 Isobutyl Acetate		

16 Other information

Contact:

Regulatory Affairs

Printing date 12/10/2013 Revised On 12/10/2013		
1 Identification of the substance and manufacturer		
Trade name:	SPRAY GALV PRIMER	
Product code:	0000160845	
Manufacturer/Supplier:	Seymour of Sycamore	
	917 Crosby Avenue	
	Sycamore, IL 60178	
	www.seymourpaint.com	
Emergency telephone number:	CHEMTEL 1-800-255-3924, 813-248-0585 *if located outside the U.S.*	
2 Composition/information on ing		
Chemical Description:	This product is a mixture of the substances listed below with nonhazardous additions.	
Dangerous components:		
7440-66-6 zinc powder	26.06%	
108-88-3 Toluene 74-98-6 propane	16.88% 9.46%	
110-19-0 isobutyl acetate	8.94%	
106-97-8 n-butane	5.55%	
64742-47-8 Mineral Spirits	5.16%	
3 Hazard(s) identification		
Hazard Information for people and		
the environment:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e.	
	electric lights. Do not pierce or burn, even after use. Extremely flammable liguid and vapor in a pressurized container. Keep away from heat, sparks, and	
	flame.	
	Has narcotizing effect.	
Risk phrases:	Extremely flammable.	
	Irritating to eyes and respiratory system. Harmful: danger of serious damage to health by prolonged exposure through inhalation.	
	Possible risk of harm to the unborn child	
Safety phrases:	Keep out of the reach of children.	
	Keep away from sources of ignition - No smoking.	
	Do not breathe gas/fumes/vapour/spray. Do not empty into drains, dispose of this material and its container at hazardous or special waste	
	collection point	
	Wear suitable protective clothing and gloves.	
	If swallowed, seek medical advice immediately and show this container or label. Use only in well-ventilated areas.	
Effects of chronic overexposure:	May cause permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart, and blood. Intentional misuse by deliberately inhaling the contents may	
	kidneys, lungs, liver, heart, and blood. Intentional misuse by deliberately inhaling the contents may be harmful or fatal.	
NFPA ratings (0 - 4):	Health = 1	
	Fire = 4	
HMIS ratings (0 4);	Reactivity = 3 Health= 1	
HMIS-ratings (0 - 4):	Fire= 4	
	Physical Hazard= 3	
4 First-aid measures		
After inhalation: After skin contact:	Supply fresh air; consult doctor in case of complaints. Remove contaminated clothing. Wash exposed area with soap and water.	
After eye contact:	Move to fresh air. Rinse opened eye for several minutes under running water. If symptoms persist,	
-	consult a doctor.	
After swallowing:	Contact physician or poison control center.	
5 Fire-fighting measures		
Extinguishing agents:	CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol	
	resistant foam.	
Special hazards:	No further relevant information available.	
Protective equipment for firefighters:	No special measures required.	
inonginoro.		
6 Accidental release measures		
Personal precautions, protective		
equipment and emergency		
procedures:	Wear protective equipment. Keep unprotected persons away.	
Environmental precautions:	Do not allow product to reach sewage systems or ground water. (Contd. on page 2)	
	USAUSA	

USA 655 Safety Data Sheet acc. to OSHA HCS

Printing date 12/10/2013

F

Revised On 12/10/2013

Trade name: SPRAY GALV PRIMER		
Methods and material for	(Contd. of page 1)	
containment and cleaning up:	Ensure adequate ventilation.	
7 Handling and storage		
Fire/explosion protection:	Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic discharges.	
Storage requirements:	Observe pressurized container storage regulations. Consult with your local authorities.	
8 Exposure controls/personal pro	tection	
-	require monitoring at the workplace:	
108-88-3 Toluene		
PEL Short-term value: C 300; 500* p Long-term value: 200 ppm	pm	
Long-term value: 200 ppm *10-min peak per 8-hr shift		
REL Short-term value: 560 mg/m ³ , 15 Long-term value: 375 mg/m ³ , 10	0 ppm	
TLV Long-term value: 75 mg/m ³ , 20 p		
BEI		
74-98-6 propane PEL Long-term value: 1800 mg/m ³ , 1	000 nnm	
REL Long-term value: 1800 mg/m ³ , 1		
TLV refer to Appendix F: minimal oxy		
110-19-0 isobutyl acetate		
PEL Long-term value: 700 mg/m ³ , 15 REL Long-term value: 700 mg/m ³ , 15		
TLV Long-term value: 700 mg/m ³ , 15		
106-97-8 n-butane		
REL Long-term value: 1900 mg/m ³ , 8		
TLV Short-term value: 2370 mg/m³, 1 8052-41-3 Stoddard Solvent	000 ppm	
PEL Long-term value: 2900 mg/m ³ , 5	00 mag 00	
REL Short-term value: C 1800* mg/m		
Long-term value: 350 mg/m ³ *15-min		
TLV Long-term value: 525 mg/m ³ , 10	mag 0	
Ingredients with biological limit val		
108-88-3 Toluene		
BEI 0.02 mg/L Medium: blood		
Time: prior to last shift of workwe	ek	
Parameter: Toluene		
0.03 mg/L		
Medium: urine Time: end of shift		
Parameter: Toluene		
0.3 mg/g creatinine		
Medium: urine		
Time: end of shift Parameter: o-Cresol with hydroly	sis (background)	
Hygienic protection:	Keep away from foodstuffs and animal feed. Wash hands after use.	
Breathing equipment:	A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn.	
	If you suspect overexposure conditions exist, please consult an authority on chemical hygeine.	
Hand protection:	Protective gloves. The glove material must be impermeable and resistant to the substance. No glove recommendation can be given.	
Eye protection:	Tightly sealed goggles	
9 Physical and chemical propertie		
Odor:	Aromatic	
pH-value: Boiling point:	Not determined. -44 °C (-47 °F)	
Flash point:	-19 °C (-2 °F)	
	(Contd. on page 3)	
	USA	

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Revised On 12/10/2013

Printing date 12/10/2013

Trade name: SPRAY GALV PRIMER	
	(Contd. of page 2)
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120 degrees fahrenheit.
	In use, may form flammable/explosive vapour-air mixture.
Lower Explosion Limit: Upper Explosion Limit:	Not determined.
Vapor Pressure:	40 PSI, 2750 hPa
Specific Gravity:	Between 0.77 and 0.85 (Water equals 1.00)
VOC content: VOC content (less exempt solvents) MIR Value:	597.0 g/l / 4.98 lb/gl : 47.5 % 0.96
Solids content: Other information	52.4 % No further relevant information available.
10 Stability and reactivity	
Conditions to avoid:	Do not allow the can to exceed 120 degrees Fahrenheit. Stable at normal temperatures.
Hazardous decomposition:	No dangerous decomposition products known.
11 Toxicological information	
Skin effects:	No irritant effect.
Eye effects:	Irritating effect.
Sensitization: Additional toxicological information	No sensitizing effects known.
Carcinogenic categories	
IARC (International Agency for Rese	arch on Cancer)
108-88-3 Toluene	3
NTP (National Toxicology Program)	
None of the ingredients is listed.	
12 Ecological information	
Aquatic toxicity: Other information:	Hazardous for water, do not empty into drains. This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), or chlorinated solvents.
13 Disposal considerations	
•	tate, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be
disposed of responsibly. Do not heat o	r cut empty containers with electric or gas torches.
Recommendation:	Completely empty cans should be recycled.
14 Transport information	
UN-Number	UN1950
DOT	Consumer Commodity ORM-D AEROSOLS, flammable
Class	2.1
Marine pollutant: EMS Number:	Symbol (fish and tree) F-D,S-U
Packaging Group:	
15 Regulatory information	
SARA Section 355 (extremely hazard	lous substances):
None of the ingredients in this product	
SARA Section 313 (Specific toxic ch	
7440-66-6 zinc powder	
108-88-3 Toluene TSCA:	All ingradiants are listed
CPSC:	All ingredients are listed. This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.
California Proposition 65 chemicals None of the ingredients in this product	
California Proposition 65 chemicals	
know to cause developmental toxicity:	108-88-3 Toluene
WHMIS Symbols for Canada:	A - Compressed gas
	(Contd. on page 4) (分析
	037

Printing date 12/10/2013

Trade name: SPRAY GALV PRIMER

(Contd. of page 3)

USA

D2 <u>A</u> - Ver <u>v t</u> oxic m <u>at</u> erial	causing other toxic effects
$\bigcirc \bigcirc $	5

EPA:	
7440-66-6 zinc powder	11
108-88-3 Toluene	
110-19-0 isobutyl acetate	D
ACGIH:	
108-88-3 Toluene	A4
110-19-0 isobutyl acetate	A4
NIOSH:	
7440-43-9 cadmium (non-pyrophoric)	

16 Other information

This product was manufactured in the U.S.A. The information on this sheet is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Contact: Regulatory Affairs IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) TSCA: Toxic Substances Control Act CPSC: Consumer Product Safety Commission EPA: Environmental Protection Agency IARC: International Agency for the Research of Cancer NIOSH: National Institute for Occupational Safety and Health Abbreviations and acronyms:



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Stay Silv® 99 Powder Brazing Flux

Other means of identification SDS number: 20000007223

Recommended use and restriction on use

Recommended use: Metal Brazing **Restrictions on use:** Not known. Read this SDS before using this product.

Manufacturer/Importer/Supplier/Distributor Information

•	
Company Name:	The Harris Products Group
Address:	4501 Quality Place
	Mason, OH 45040-1971
	USA
Telephone:	+1 (513) 754-2000
Contact Person:	Safety Data Sheet Questions: custservmason@jwharris.com
Company Name:	The Lincoln Electric Company of Canada LP
Address:	179 Wicksteed Avenue
	Toronto, Ontario M4G 2B9
	Canada
Telephone:	+1 (416) 421-2600
Contact Person:	Safety Data Sheet Questions: www.lincolnelectric.com/sds Arc Welding Safety Information: www.lincolnelectric.com/safety
	- · · · · · · · · · · · · · · · · · · ·

Emergency telephone number:

USA/Canada/Mexico	+1 (888) 609-1762
Americas/Europe	+1 (216) 383-8962
Asia Pacific	+1 (216) 383-8966
Middle East/Africa	+1 (216) 383-8969

3E Company Access Code: 333988

2. HAZARDS IDENTIFICATION

Classified according to the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), The United States Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200), Canada's Hazardous Product Regulations and Mexico's Harmonized System for the Identification and Communication of Hazards and Risks from Hazardous Chemicals in the Workplace.

Hazard Classification Health Hazards

Toxic to reproduction

Category 1B

Label Elements Hazard Symbol:



Signal Word:	Danger
Hazard Statement:	May damage fertility. May damage the unborn child.
Precautionary Statements:	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Other hazards which do not result in GHS classification:	Heat rays (infrared radiation) from flame or hot metal can injure eyes. Overexposure to brazing fumes and gases can be hazardous. Read and understand the manufacturer's instructions, Safety Data Sheets and the precautionary labels before using this product.
Substance(s) formed under the conditions of use:	Fumes produced from use of this product may contain the following constituent(s) and/or their complex metallic oxides as well as solid particles or other constituents from the solder, brazing consumable, flux material or base metal, or base metal coating not listed below. Hydrogen fluoride, a possible decomposition product, is extremely corrosive and a poison by all routes of entry. Hydrogen fluoride can penetrate the skin and produce burns, which may not be immediately painful or visible; the burns impact the lower layers of skin and bone tissue. Hydrogen fluoride exposures involving 20 percent of the body or more can be fatal through systemic fluoride poisoning.

Chemical Identity	CAS-No.
Carbon dioxide	124-38-9
Carbon monoxide	630-08-0
Nitrogen dioxide	10102-44-0
Ozone	10028-15-6

3. COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Ingredients Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Potassium fluoroborate	14075-53-7	50 - <100%
Potassium tetraborate tetrahydrate	12045-78-2	20 - <50%



Boric acid	10043-35-3	10 - <20%
* All concentrations are percent by w	eight unless ingredient is a gas. Gas concentrations	are in percent by volume.
Composition Comments:	The term "Hazardous Ingredients" should be interpreted as a term defined in Hazard Communication standards and does not necessarily imply the existence of a welding hazard. The product may contain additional non- hazardous ingredients or may form additional compounds under the condition of use. Refer to Sections 2 and 8 for more information.	
. FIRST AID MEASURES		
Ingestion:		f particulate during hand to mouth noking, etc. If ingested, do not induce enter. Unless the poison control center horoughly with water. If symptoms
Inhalation:	Move to fresh air if breathing is difficult. If breathing has stopped, perform artificial respiration and obtain medical assistance at once.	
Skin Contact:	Remove contaminated clothing and wash the skin thoroughly with soap and water. For reddened or blistered skin, or thermal burns, obtain medical assistance at once.	
Eye contact:		ntacts the eye should be washed out , remove contact lenses. Continue to dical attention promptly if symptoms
lost important symptoms/effe Symptoms:	ects, acute and delayed Short-term (acute) overexposure to f allied processes may result in discon dizziness, nausea, or dryness or irrita aggravate pre-existing respiratory pr Long-term (chronic) overexposure to allied processes can lead to siderosis nervous system effects, bronchitis ar Section 11 for more information.	nfort such as metal fume fever, ation of nose, throat, or eyes. May oblems (e.g. asthma, emphysema). fumes and gases from welding and s (iron deposits in lung), central
Hazards:	The hazards associated with welding soldering and brazing are complex a hazards such as but not limited to ele burns (eye flash), thermal burns due health effects of overexposure to fun generated during the use of this proc information.	nd may include physical and health ectric shock, physical strains, radiation to hot metal or spatter and potential nes, gases or dusts potentially
ndication of immediate medica Treatment:	al attention and special treatment need Treat symptomatically.	ed

5. FIRE-FIGHTING MEASURES

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General Fire Hazards:
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As shipped, this product is nonflammable. However, welding arc and sparks as well as open flames and hot surfaces associated with brazing and soldering can ignite combustible and flammable materials. Read and understand American National Standard Z49.1, "Safety in Welding, Cutting



and Allied Processes" and National Fire Protection Association NFPA 51B, "Standard for Fire Prevention during Welding, Cutting and Other Hot Work" before using this product.

Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters		
Special fire fighting procedures:	Use standard firefighting procedures and consider the hazards of other involved materials.	
Special protective equipment for fire-fighters:	Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	If airborne dust and/or fume is present, use adequate engineering controls and, if needed, personal protection to prevent overexposure. Refer to recommendations in Section 8.
Methods and material for containment and cleaning up:	Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk. Clean up spills immediately, observing precautions in the personal protective equipment in Section 8. Avoid generating dust. Prevent product from entering any drains, sewers or water sources. Refer to Section 13 for proper disposal.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

7. HANDLING AND STORAGE

Precautions for safe handling: Prevent abrading consumable materials or creating dust. Provide appropriate exhaust ventilation at places where fume or dust is formed. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Read and understand the manufacturer's instruction and the precautionary label on the product. See American National Standard Z49.1, "Safety In Welding, Cutting and Allied Processes" published by the American Welding Society, http://pubs.aws.org and OSHA Publication 2206 (29CFR1910), U.S. Government Printing Office, www.gpo.gov. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities:

Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



Control Parameters

Occupational Exposure Limits: US

Chemical Identity	Туре	Exposure Limit Values	Source
Potassium fluoroborate - Inhalable fraction.	STEL	6 mg/m3	US. ACGIH Threshold Limit Values (02 2014)
	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (02 2014)
Potassium fluoroborate - as F	REL	2.5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Potassium fluoroborate	IDLH	250 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Potassium fluoroborate - as F	TWA	2.5 mg/m3	US. ACGIH Threshold Limit Values (01 2021)
Potassium fluoroborate	IDLH	250 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2019)
Potassium fluoroborate - as F	PEL	2.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017)
Potassium fluoroborate - Dust.	TWA	2.5 mg/m3	US. OSHA Table Z-2 (29 CFR 1910.1000) (01 2017)
Boric acid - Inhalable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (02 2012)
	STEL	6 mg/m3	US. ACGIH Threshold Limit Values (02 2012)

Occupational Exposure Limits: Canada

Chemical Identity Type		Exposure Limit Values	Source	
Potassium fluoroborate - as F	TWA	2.5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)	
Potassium fluoroborate - Inhalable fraction.	TWA	2 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2013)	
Potassium fluoroborate - as F	TWA	2.5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (01 2019)	
	TWA	2.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2020)	
	TWA	2.5 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (01 2021)	
	TWA	2.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)	
	8 HR ACL	2.5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (06 2016)	
	15 MIN ACL	5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (06 2016)	
	TWA	2.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)	
Potassium tetraborate tetrahydrate - Inhalable fraction.	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)	
	STEL	6 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)	
Boric acid - Inhalable	STEL	6 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for	



			Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Boric acid - Inhalable fraction.	STEL	6 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2012)
	TWA	2 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2012)
	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	STEL	6 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	8 HR ACL	2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	6 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Boric acid - Inhalable dust.	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
	STEL	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)

Occupational Exposure Limits: Mexico

Chemical Identity	Туре	Exposure Limit Values	Source
Potassium fluoroborate - as F	VLE-PPT	2.5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Boric acid - Inhalable fraction.	VLE-PPT	2 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
	VLE-CT	6 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Biological Limit Values: US

Chemical Identity	Exposure Limit Values	Source
Potassium fluoroborate (Fluoride: Sampling time: End of shift.)	3 mg/l (Urine)	ACGIH BEI (01 2021)
Potassium fluoroborate (Fluoride: Sampling time: Prior to shift.)	2 mg/l (Urine)	ACGIH BEI (01 2021)

Biological Limit Values: Mexico

Chemical Identity	Exposure Limit Values	Source
Potassium fluoroborate (fluorides: Sampling time: End of shift.)	10 mg/g (Creatinine in urine)	MX IBE (06 2012)
Potassium fluoroborate	3 mg/g (Creatinine in urine)	MX IBE (06 2012)



(fluorides: Sampling time:	
(nuonues. Sampling time.	
Prior to shift.)	

Additional exposure limits under the conditions of use: US

Chemical Identity	Туре	Exposure Li	mit Values	Source
Carbon dioxide	TWA	5,000 ppm		US. ACGIH Threshold Limit Values (12 2010)
	STEL	30,000 ppm		US. ACGIH Threshold Limit Values (12 2010)
	PEL	5,000 ppm	9,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	30,000 ppm	54,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	REL	5,000 ppm	9,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	40,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Carbon monoxide	TWA	25 ppm		US. ACGIH Threshold Limit Values (12 2010)
	PEL	50 ppm	55 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	REL	35 ppm	40 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	Ceil_Time	200 ppm	229 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	1,200 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Nitrogen dioxide	TWA	0.2 ppm		US. ACGIH Threshold Limit Values (02 2012)
	Ceiling	5 ppm	9 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	1 ppm	1.8 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	20 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
	IDLH	13 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Ozone	PEL	0.1 ppm	0.2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceil_Time	0.1 ppm	0.2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	TWA	0.05 ppm		US. ACGIH Threshold Limit Values (03 2014)
	TWA	0.10 ppm		US. ACGIH Threshold Limit Values (03 2014)
	TWA	0.08 ppm		US. ACGIH Threshold Limit Values (03 2014)
	IDLH	5 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
	TWA	0.20 ppm		US. ACGIH Threshold Limit Values (02 2020)

Additional exposure limits under the conditions of use: Canada

Chemical Identity	Туре	Exposure Limit Values		Source
Carbon dioxide	STEL	30,000 ppm	54,000 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	5,000 ppm	9,000 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	5,000 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for



				F
				Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	15,000 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	5,000 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	STEL	30,000 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	STEL	30,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	5,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	8 HR ACL	5,000 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	30,000 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	TWA	5,000 ppm	9,000 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	STEL	30,000 ppm	54,000 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Carbon monoxide	TWA	25 ppm	29 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	100 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	25 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	TWA	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	8 HR ACL	25 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	190 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	TWA	35 ppm	40 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	STEL	200 ppm	230 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Nitrogen dioxide	STEL	5 ppm	9.4 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	3 ppm	5.6 mg/m3	Canada. Alberta OELs (Occupational



				Health & Safety Code, Schedule 1, Table
				2), as amended (07 2009)
	CEILING	1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.2 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2012)
	STEL	5 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	3 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	8 HR ACL	3 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	5 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	TWA	3 ppm	5.6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Ozone	STEL	0.3 ppm	0.6 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	0.1 ppm	0.2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	0.05 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.08 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.2 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.1 ppm	0.2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	STEL	0.3 ppm	0.6 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	15 MIN ACL	0.15 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	8 HR ACL	0.05 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	CEILING	0.1 ppm	0.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (12 2008)
	TWA	0.05 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as



		amended (03 2014)
TWA	0.08 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014)
TWA	0.10 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014)
TWA	0.20 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (02 2020)

Additional exposure limits under the conditions of use: Mexico

Chemical Identity	Туре	Exposure Limit Values	Source
Carbon dioxide	VLE-CT	30,000 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
	VLE-PPT	5,000 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Carbon monoxide	VLE-PPT	25 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Nitrogen dioxide	VLE-PPT	0.2 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Ozone	VLE-P	0.1 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Appropriate Engineering Controls

Ventilation: Use enough ventilation and local exhaust at the arc, flame or heat source to keep the fumes and gases from the worker's breathing zone and the general area. Train the operator to keep their head out of the fumes. **Keep exposure as low as possible.**

Individual protection measures, such as personal protective equipment General information: Exposure Guidelines: To reduce the po

Exposure Guidelines: To reduce the potential for overexposure, use controls such as adequate ventilation and personal protective equipment (PPE). Overexposure refers to exceeding applicable local limits, the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) or the Occupational Safety and Health Administration's (OSHA) Permissible Exposure Limits (PELs). Workplace exposure levels should be established by competent industrial hygiene assessments. Unless exposure levels are confirmed to be below the applicable local limit, TLV or PEL, whichever is lower, respirator use is required. Absent these controls, overexposure to one or more compound constituents, including those in the fume or airborne particles, may occur resulting in potential health hazards. According to the ACGIH, TLVs and Biological Exposure Indices (BEIs) "represent conditions under which ACGIH believes that nearly all workers may be repeatedly exposed without adverse health effects." The ACGIH further states that the TLV-TWA should be used as a guide in the control of health hazards and should not be used to indicate a fine line between safe and dangerous exposures. See Section 10 for information on constituents which have some potential to present health hazards. Welding consumables and materials being joined may contain chromium as an unintended trace element. Materials that contain chromium may produce some amount of hexavalent chromium (CrVI) and other chromium compounds as a byproduct in the fume. In 2018, the American Conference of Governmental Industrial Hygienists (ACGIH)



	lowered the Threshold Limit Value (TLV) for hexavalent chromium from 50 micrograms per cubic meter of air (50 μ g/m ³) to 0.2 μ g/m ³ . At these new limits, CrVI exposures at or above the TLV may be possible in cases where adequate ventilation is not provided. CrVI compounds are on the IARC and NTP lists as posing a lung cancer and sinus cancer risk. Workplace conditions are unique and welding fume exposures levels vary. Workplace exposure assessments must be conducted by a qualified professional, such as an industrial hygienist, to determine if exposures are below applicable limits and to make recommendations when necessary for preventing overexposures.
	Maximum Dust Exposure Guideline [™] (MDEG) [™] for this product (based on content of Potassium fluoroborate) is 3.6 mg/m3. This exposure guideline is calculated using the most conservative value of the ACGIH TLV or OSHA PEL for the stated substance.Handle to minimize generation of airborne dust. Use adequate ventilation and dust collection. Use respiratory protection, if required, to keep exposure below limits. If your local applicable exposure limits are lower than the ACGIH TLV or OSHA PEL for any of the substances listed in Section 3 of this SDS, you must take that into consideration before utilizing or applying this guideline.
Eye/face protection:	Wear helmet, face shield or eye protection with filter lens shade number 2 for torch soldering and 3-4 for torch brazing, and follow the recommendations as specified in ANSI Z49.1, Section 4, based on your process details. Shield others by providing appropriate screens and eye protection.
Skin Protection Hand Protection:	Wear protective gloves. Suitable gloves can be recommended by the glove supplier.
Other:	Protective Clothing: Wear hand, head, and body protection which help to prevent injury from radiation, open flames, hot surfaces, sparks and electrical shock. See Z49.1. At a minimum, this includes welder's gloves and a protective face shield when welding, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing when welding, brazing and soldering. Wear dry gloves free of holes or split seams. Train the operator not to permit electrically live parts or electrodes from contacting the skin or clothing or gloves if they are wet. Insulate yourself from the work piece and ground using dry plywood, rubber mats or other dry insulation.
Respiratory Protection:	Keep your head out of fumes. Use enough ventilation and local exhaust to keep fumes and gases from your breathing zone and the general area. An approved respirator should be used unless exposure assessments are below applicable exposure limits.
Hygiene measures:	Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits. See ANSI/AWS F1.1, F1.2, F1.3 and F1.5, available from the American Welding Society, www.aws.org. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brazing flux.
Physical state:	Solid
Form:	Powder.
Color:	White
Odor:	No data available.
Odor threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	No data available.
Initial boiling point and boiling	No data available.
range:	
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability	/ or explosive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1.6000 g/cm3
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-	No data available.
octanol/water):	
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. STABILITY AND REACTIVITY

Reactivity:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	None under normal conditions.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Strong acids. Strong oxidizing substances. Strong bases.
Hazardous Decomposition Products:	Fumes and gases from welding and its allied processes such as brazing and soldering cannot be classified simply. The composition and quantity of both are dependent upon the metal to which the joining or hot work is applied, the process, procedure - and where applicable - the electrode or



consumable used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded or worked (such as paint, plating, or galvanizing), the number of operators and the volume of the work area, the quality and amount of ventilation, the position of the operator's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities.)

In cases where an electrode or other applied material is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Decomposition products of normal operation include those originating from the volatilization, reaction, or oxidation of the materials shown in Section 3, plus those from the base metal and coating, etc., as noted above. Reasonably expected fume constituents produced during arc welding and brazing include the oxides of iron, manganese and other metals present in the welding consumable or base metal. Hexavalent chromium compounds may be in the welding or brazing fume of consumables or base metals which contain chromium. Gaseous and particulate fluoride may be in the fume of consumables or flux materials which contain fluoride. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc associated with welding.

11. TOXICOLOGICAL INFORMATION

General information:	The International Agency for Research on Cancer (IARC) has determined welding fumes and ultraviolet radiation from welding are carcinogenic to humans (Group 1). According to IARC, welding fumes cause cancer of the lung and positive associations have been observed with cancer of the kidney. Also according to IARC, ultraviolet radiation from welding causes ocular melanoma. IARC identifies gouging, brazing, carbon arc or plasma arc cutting, and soldering as processes closely related to welding. Read and understand the manufacturer's instructions, Safety Data Sheets and the precautionary labels before using this product.
Information on likely routes of e Inhalation:	xposure Inhalation is the primary route of exposure. In high concentrations, dust, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Moderately irritating to skin with prolonged exposure.
Eye contact:	HEAT RAYS (INFRARED RADIATION) from flame or hot metal can injure eyes.
Ingestion:	Avoid ingestion - wear gloves and other appropriate personal protection -

wash hands thoroughly following use or handling.

Symptoms related to the physical, chemical and toxicological characteristics



Inhalation:	Short-term (acute) overexposure to fumes and gases from brazing and soldering may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre- existing respiratory problems (e.g. asthma, emphysema). Long-term (chronic) overexposure to fumes and gases from brazing and soldering can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Products which contain lead or cadmium have additional specific health hazards - refer to Sections 2, 8 and 11 of this SDS. Depending on specific product composition, some products may produce hazardous concentrations of airborne oxides of cadmium, lead, zinc or fluoride compounds. Use adequate ventilation and respiratory protection during use. Avoid breathing fumes. Avoid ingestion - wear gloves and other appropriate personal protection - wash hands thoroughly following use or handling. Inhalation of fumes may cause upper respiratory tract irritation and systemic poisoning with early symptoms including headache, coughing, and a metallic taste as well as metal fume fever. Chronic cadmium exposure causes lung and kidney damage. Chronic exposure to lead causes damage to lungs, liver, kidney, nervous system as well as blood and musculoskeletal disorders. Exposures to high levels of cadmium or lead dust or fume may be immediately dangerous to life or health and can cause delayed pneumonitis with fever and chest pain, and pulmonary edema resulting in death.
Information on toxicological effect Acute toxicity (list all possible	
Oral Product: Specified substance(s):	ATEmix: 17,733.33 mg/kg
Boric acid	LD 50 (Rat): 2,660 mg/kg
Dermal Product:	Not classified for acute toxicity based on available data.
Inhalation Product:	Not classified for acute toxicity based on available data.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	Not classified
Serious Eye Damage/Eye Irritation Product:	Not classified
Respiratory or Skin Sensitization Product:	Respiratory Sensitization: Not classified Skin Sensitization: Not classified
Carcinogenicity Product:	Not classified
IARC Monographs on the E No carcinogenic components	Evaluation of Carcinogenic Risks to Humans:
US. National Toxicology Pr No carcinogenic components	ogram (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:



No carcinogenic component	ts identified
Germ Cell Mutagenicity	
In vitro Product:	Not classified
In vivo	
Product:	Not classified
Reproductive toxicity Product:	May damage fertility or the unborn child.
Specific Target Organ Toxicity - Product:	- Single Exposure Not classified
Specific Target Organ Toxicity · Product:	- Repeated Exposure Not classified
Aspiration Hazard Product:	Not applicable
Symptoms related to the physic	al, chemical and toxicological characteristics under the condition of use
Additional toxicological Informa	tion under the conditions of use:
Acute toxicity	
Inhalation	
Specified substance(s):	
Carbon dioxide	LC Lo (Human, 5 min): 90000 ppm
Carbon monoxide	LC 50 (Rat, 4 h): 1300 ppm
Nitrogen dioxide Ozone	LC 50 (Rat, 4 h): 88 ppm LC Lo (Human, 30 min): 50 ppm
Other effects:	
Specified substance(s):	
Carbon dioxide	Asphyxia
Carbon monoxide Nitrogen dioxide	Carboxyhemoglobinemia Lower respiratory tract irritation
12. ECOLOGICAL INFORMAT	ION
Ecotoxicity Acute hazards to the aquatic envi Fish	ironment:
Product: Specified substance(s):	Not classified
Boric acid	LC 50 (Pimephales promelas, 96 h): 79.7 mg/l
Aquatic Invertebrates Product:	Not classified
Specified substance(s): Boric acid	
	LC 50 (Hyalella azteca, 96 h): 64 mg/l
Chronic hazards to the aquati Fish Product:	Not classified
Aquatic Invertebrates	



Product:	Not classified
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability Biodegradation Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (Product:	(BCF) No data available.
Mobility in soil:	No data available.
13. Disposal considerations	3
General information:	The generation of waste should be avoided or minimized whenever possible. When practical, recycle in an environmentally acceptable, regulatory compliant manner. Dispose of non-recyclable products in accordance with all applicable Federal, State, Provincial, and Local requirements.
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local

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Contaminated Packaging: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
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14. TRANSPORT INFORMATION

DOT UN number or ID number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant:	NOT DG REGULATED NR - - No
IMDG UN number or ID number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.:	NOT DG REGULATED NR –
Packing Group: Marine Pollutant:	– No
IATA UN number or ID number: Proper Shipping Name: Transport Hazard Class(es): Class:	NOT DG REGULATED NR

laws.

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Label(s):	_
Packing Group:	_
Marine Pollutant:	No
Cargo aircraft only:	Allowed.
TDG	
UN number or ID number:	
UN Proper Shipping Name:	NOT DG REGULATED
Transport Hazard Class(es)	
Class:	NR
Label(s):	-
Packing Group:	-
Marine Pollutant:	No

15. REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Delayed (Chronic) Health Hazard Reproductive toxicity

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical Chemical Identity

Threshold Planning Quantity

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

WARNING: This product contains or produces a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code Section 25249.5 et seq.) **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act



<u>Chemical Identity</u> Potassium fluorobora Potassium tetraborat Boric acid	
US. Massachusetts RTK No ingredient reg	a Substance List ulated by MA Right-to-Know Law present.
US. Pennsylvania RTK - Chemical Identity Potassium fluorobora	
US. Rhode Island RTK Chemical Identity Potassium fluoro	oborate
Canada Federal Regulatio List of Toxic Substances	
Chemical Identity Potassium fluorobora	
Export Control List (CEF Not Regulated	PA 1999, Schedule 3)
National Pollutant Relea Canada. National Po Reporting Requirem NPRI PT5	Ilutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional
Canada. National Po NPRI	Ilutant Release Inventory (NPRI) (Schedule 1, Parts 1-4) Not Regulated
Greenhouse Gases Not Regulated	
Controlled Drugs and So CA CDSI	ubstances Act Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated
Precursor Control Regu Not Regulated	lations
Mexico. Substances subject	t to reporting for the pollutant release and transfer registry (PRTR): Not applical

Inventory Status:

Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. On or in compliance with the inventory



	Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Japan ISHL Listing: Japan Pharmacopoeia Listing: Mexico INSQ: Ontario Inventory: Taiwan Chemical Substance Inventory: Australia AICS:	One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. One or more components are not listed or are exempt from listing. On or in compliance with the inventory One or more components are not listed or are exempt from listing.
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16. OTHER INFORMATION

Definitions:

The Maximum Dust Exposure Guideline[™] (MDEG)[™] is provided to assist with the management of workplace exposures where granular solid welding products or other materials are being utilized. It is derived from relevant compositional data and estimates the lowest level of total airborne dust exposure, for a given product, at which some specific constituent might potentially exceed its individual exposure limit. The specific exposure limits referenced are the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV®) and the U. S. OSHA Permissible Exposure Limit (PEL), which ever value is the lowest. If local applicable limits for any of the substances listed in Section 3 of this SDS are lower than the TLV or PEL this must be taken into consideration before utilizing or applying this guideline. The MDEG[™] is intended to serve as a general guideline to assist in the management of workplace exposure and does not replace the regular measurement and analysis of worker exposure to individual airborne dust constituents in accordance with recommended industrial hygiene practice.

Revision Date:	08/12/2021		
Further Information:	Additional information is available by request.		
Disclaimer:	The Lincoln Electric Company urges each end user and recipient of this SDS to study it carefully. See also www.lincolnelectric.com/safety. If necessary, consult an industrial hygienist or other expert to understand this information and safeguard the environment and protect workers from potential hazards associated with the handling or use of this product. This information is believed to be accurate as of the revision date shown above. However, no warranty, expressed or implied, is given. Because the conditions or methods of use are beyond Lincoln Electric's control, we assume no liability resulting from the use of this product. Regulatory requirements are subject to change and may differ between various locations. Compliance with all applicable Federal, State, Provincial, and local laws and regulations remain the responsibility of the user.		



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Stay Silv® White Brazing Flux

Other means of identification SDS number: 20000007166

Recommended use and restriction on use

Recommended use: Metal Brazing **Restrictions on use:** Not known. Read this SDS before using this product.

Manufacturer/Importer/Supplier/Distributor Information

Company Name:	The Harris Products Group
	•
Address:	4501 Quality Place
	Mason, OH 45040-1971
	USA
Telephone:	+1 (513) 754-2000
Contact Person:	Safety Data Sheet Questions: custservmason@jwharris.com
Company Name:	The Lincoln Electric Company of Canada LP
Address:	179 Wicksteed Avenue
	Toronto, Ontario M4G 2B9
	Canada
Telephone:	+1 (416) 421-2600
Contact Person:	Safety Data Sheet Questions: www.lincolnelectric.com/sds Arc Welding Safety Information: www.lincolnelectric.com/safety

Emergency telephone number:

USA/Canada/Mexico	+1 (888) 609-1762
Americas/Europe	+1 (216) 383-8962
Asia Pacific	+1 (216) 383-8966
Middle East/Africa	+1 (216) 383-8969

3E Company Access Code: 333988

2. HAZARDS IDENTIFICATION

Classified according to the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), The United States Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200), Canada's Hazardous Product Regulations and Mexico's Harmonized System for the Identification and Communication of Hazards and Risks from Hazardous Chemicals in the Workplace.

Hazard Classification Health Hazards

Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 3
Acute toxicity (Inhalation - dust and mist)	Category 4
Toxic to reproduction	Category 2

Label Elements Hazard Symbol:



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Signal Word:	Danger
Hazard Statement:	Toxic in contact with skin. Harmful if swallowed or if inhaled. Suspected of damaging fertility or the unborn child.
Precautionary Statements:	
Prevention:	Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of water/ IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Specific measures (see this label). Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	Heat rays (infrared radiation) from flame or hot metal can injure eyes. Overexposure to brazing fumes and gases can be hazardous. Read and understand the manufacturer's instructions, Safety Data Sheets and the precautionary labels before using this product.
Substance(s) formed under the conditions of use:	Fumes produced from use of this product may contain the following constituent(s) and/or their complex metallic oxides as well as solid particles or other constituents from the solder, brazing consumable, flux material or base metal, or base metal coating not listed below. Hydrogen fluoride, a possible decomposition product, is extremely corrosive and a poison by all routes of entry. Hydrogen fluoride can penetrate the skin and produce burns, which may not be immediately painful or visible; the burns impact the lower layers of skin and bone tissue. Hydrogen fluoride exposures involving 20 percent of the body or more can be fatal through systemic fluoride poisoning.

Chemical Identity	CAS-No.
Carbon dioxide	124-38-9
Carbon monoxide	630-08-0
Nitrogen dioxide	10102-44-0



Ozone

10028-15-6

3. COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Potassium difluorodihydroxyborate(1-)	85392-66-1	50 - <100%
Potassium fluoride	7789-23-3	25 - <50%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: The term "Hazardous Ingredients" should be interpreted as a term defined in Hazard Communication standards and does not necessarily imply the existence of a welding hazard. The product may contain additional non-hazardous ingredients or may form additional compounds under the condition of use. Refer to Sections 2 and 8 for more information.

4. FIRST AID MEASURES	
Ingestion:	Avoid hand, clothing, food, and drink contact with fluxes, metal fume or powder which can cause ingestion of particulate during hand to mouth activities such as drinking, eating, smoking, etc. If ingested, do not induce vomiting. Contact a poison control center. Unless the poison control center advises otherwise, wash out mouth thoroughly with water. If symptoms develop, seek medical attention at once. Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.
Inhalation:	Move to fresh air if breathing is difficult. If breathing has stopped, perform artificial respiration and obtain medical assistance at once.
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. Call a POISON CENTER/doctor if you feel unwell.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a POISON CENTER/doctor if you feel unwell.
Most important symptoms/effects, Symptoms:	acute and delayed Short-term (acute) overexposure to fumes and gases from welding and allied processes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema). Long-term (chronic) overexposure to fumes and gases from welding and allied processes can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Refer to Section 11 for more information.
Hazards:	The hazards associated with welding and its allied processes such as soldering and brazing are complex and may include physical and health hazards such as but not limited to electric shock, physical strains, radiation burns (eye flash), thermal burns due to hot metal or spatter and potential health effects of overexposure to fumes, gases or dusts potentially generated during the use of this product. Refer to Section 11 for more



information.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.			
5. FIRE-FIGHTING MEASURES				
General Fire Hazards:	As shipped, this product is nonflammable. However, welding arc and sparks as well as open flames and hot surfaces associated with brazing and soldering can ignite combustible and flammable materials. Read and understand American National Standard Z49.1, "Safety in Welding, Cutting and Allied Processes" and National Fire Protection Association NFPA 51B, "Standard for Fire Prevention during Welding, Cutting and Other Hot Work" before using this product.			
Suitable (and unsuitable) extinguis	shing media			
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.			
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.			
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.			
Special protective equipment and Special fire fighting procedures:	precautions for firefighters Use standard firefighting procedures and consider the hazards of other involved materials.			
Special protective equipment for fire-fighters:	Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			
6. ACCIDENTAL RELEASE MEASURES				
Personal precautions, protective equipment and emergency procedures:	Evacuate area. See Section 8 of the SDS for Personal Protective Equipment. Keep unauthorized personnel away.			
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.			
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.			
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.			
7. HANDLING AND STORAGE				
Precautions for safe handling:	Prevent abrading consumable materials or creating dust. Provide appropriate exhaust ventilation at places where fume or dust is formed. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.			
	Read and understand the manufacturer's instruction and the precautionary label on the product. See American National Standard Z49.1, "Safety In			



Welding, Cutting and Allied Processes" published by the American Welding Society, http://pubs.aws.org and OSHA Publication 2206 (29CFR1910), U.S. Government Printing Office, www.gpo.gov. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Do not taste or swallow. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities:

Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits: US

Chemical Identity	Туре	Exposure Limit Values	Source
Potassium difluorodihydroxyborate(1-) - Inhalable fraction.	STEL	6 mg/m3	US. ACGIH Threshold Limit Values, as amended (02 2014)
	TWA	2 mg/m3	US. ACGIH Threshold Limit Values, as amended (02 2014)
Potassium difluorodihydroxyborate(1-)	IDLH	250 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Potassium fluoride - as F	TWA	2.5 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)
	PEL	2.5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Potassium fluoride - Dust.	TWA	2.5 mg/m3	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Potassium fluoride	IDLH	250 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
	IDLH	250 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)

Occupational Exposure Limits: Canada

Chemical Identity	Туре	Exposure Limit Values	Source
Potassium difluorodihydroxyborate(1-) - as F	TWA	2.5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Potassium difluorodihydroxyborate(1-) - Inhalable fraction.	STEL	6 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2013)
	TWA	2 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2013)
Potassium fluoride - as F	TWA	2.5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	2.5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	2.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	2.5 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	TWA	2.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)



8 HR ACL	2.5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
15 MIN ACL	5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
TWA	2.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)

Occupational Exposure Limits: Mexico

Chemical Identity	Туре	Exposure Limit Values	Source
Potassium fluoride - as F	VLE-PPT	2.5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Biological Limit Values: US

Chemical Identity	Exposure Limit Values	Source
Potassium fluoride (Fluoride:	2 mg/l (Urine)	ACGIH BEI (03 2013)
Sampling time: Prior to shift.)		
Potassium fluoride (Fluoride:	3 mg/l (Urine)	ACGIH BEI (03 2013)
Sampling time: End of shift.)		

Biological Limit Values: Mexico

Chemical Identity	Exposure Limit Values	Source
Potassium fluoride (fluorides:	3 mg/g (Creatinine in urine)	MX IBE (06 2012)
Sampling time: Prior to shift.)		
Potassium fluoride (fluorides:	10 mg/g (Creatinine in urine)	MX IBE (06 2012)
Sampling time: End of shift.)		

Additional exposure limits under the conditions of use: US

Chemical Identity	Туре	Exposure Limit Values 5,000 ppm		Source US. ACGIH Threshold Limit Values, as amended (12 2010)
Carbon dioxide	TWA			
	STEL	30,000 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	PEL	5,000 ppm	9,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	30,000 ppm	54,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	REL	5,000 ppm	9,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	40,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Carbon monoxide	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	PEL	50 ppm	55 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	REL	35 ppm	40 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	Ceil_Time	200 ppm	229 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	1,200 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Nitrogen dioxide	TWA	0.2 ppm		US. ACGIH Threshold Limit Values, as amended (02 2012)
	Ceiling	5 ppm	9 mg/m3	US. OSHA Table Z-1 Limits for Air



				Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	1 ppm	1.8 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	20 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
	IDLH	13 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Ozone	PEL	0.1 ppm	0.2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceil_Time	0.1 ppm	0.2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	TWA	0.05 ppm		US. ACGIH Threshold Limit Values, as amended (03 2014)
	TWA	0.20 ppm		US. ACGIH Threshold Limit Values, as amended (03 2014)
	TWA	0.10 ppm		US. ACGIH Threshold Limit Values, as amended (03 2014)
	TWA	0.08 ppm		US. ACGIH Threshold Limit Values, as amended (03 2014)
	IDLH	5 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)

Additional exposure limits under the conditions of use: Canada

Chemical Identity	mical Identity Type Exposure Limit Val		mit Values	Source
Carbon dioxide	STEL	30,000 ppm	54,000 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	5,000 ppm	9,000 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	5,000 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	15,000 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	5,000 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	STEL	30,000 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	STEL	30,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	5,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	8 HR ACL	5,000 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	30,000 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	TWA	5,000 ppm	9,000 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
	STEL	30,000 ppm	54,000 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09



				2017)
Carbon monoxide	TWA	25 ppm	29 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	100 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	25 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	TWA	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	8 HR ACL	25 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	190 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	TWA	35 ppm	40 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
	STEL	200 ppm	230 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Nitrogen dioxide	STEL	5 ppm	9.4 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	3 ppm	5.6 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	CEILING	1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.2 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2012)
	STEL	5 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	3 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	8 HR ACL	3 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	5 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	TWA	3 ppm	5.6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Ozone	STEL	0.3 ppm	0.6 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)



TWA	0.1 ppm	0.2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table
TWA	0.05 ppm		2), as amended (07 2009) Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
TWA	0.1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
TWA	0.08 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
TWA	0.2 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
TWA	0.1 ppm	0.2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
STEL	0.3 ppm	0.6 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
15 MIN ACL	0.15 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
8 HR ACL	0.05 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
CEILING	0.1 ppm	0.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (12 2008)
TWA	0.20 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014)
TWA	0.05 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014)
TWA	0.08 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014)
TWA	0.10 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014)

Additional exposure limits under the conditions of use: Mexico

Chemical Identity	Туре	Exposure Limit Values	Source
Carbon dioxide	VLE-CT	30,000 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
	VLE-PPT	5,000 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Carbon monoxide	VLE-PPT	25 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Nitrogen dioxide	VLE-PPT	0.2 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace;



			Assessment and Control), as amended (04 2014)
Ozone	VLE-P	0.1 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Appropriate Engineering Controls

Ventilation: Use enough ventilation and local exhaust at the arc, flame or heat source to keep the fumes and gases from the worker's breathing zone and the general area. Train the operator to keep their head out of the fumes. **Keep exposure as low as possible.**

Individual protection measures, such as personal protective equipment General information: Exposure Guidelines: To reduce the po

Exposure Guidelines: To reduce the potential for overexposure, use controls such as adequate ventilation and personal protective equipment (PPE). Overexposure refers to exceeding applicable local limits, the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) or the Occupational Safety and Health Administration's (OSHA) Permissible Exposure Limits (PELs), Workplace exposure levels should be established by competent industrial hygiene assessments. Unless exposure levels are confirmed to be below the applicable local limit, TLV or PEL, whichever is lower, respirator use is required. Absent these controls, overexposure to one or more compound constituents, including those in the fume or airborne particles, may occur resulting in potential health hazards. According to the ACGIH, TLVs and Biological Exposure Indices (BEIs) "represent conditions under which ACGIH believes that nearly all workers may be repeatedly exposed without adverse health effects." The ACGIH further states that the TLV-TWA should be used as a guide in the control of health hazards and should not be used to indicate a fine line between safe and dangerous exposures. See Section 10 for information on constituents which have some potential to present health hazards. Welding consumables and materials being joined may contain chromium as an unintended trace element. Materials that contain chromium may produce some amount of hexavalent chromium (CrVI) and other chromium compounds as a byproduct in the fume. In 2018, the American Conference of Governmental Industrial Hygienists (ACGIH) lowered the Threshold Limit Value (TLV) for hexavalent chromium from 50 micrograms per cubic meter of air (50 μ g/m³) to 0.2 μ g/m³. At these new limits. CrVI exposures at or above the TLV may be possible in cases where adequate ventilation is not provided. CrVI compounds are on the IARC and NTP lists as posing a lung cancer and sinus cancer risk. Workplace conditions are unique and welding fume exposures levels vary. Workplace exposure assessments must be conducted by a qualified professional, such as an industrial hygienist, to determine if exposures are below applicable limits and to make recommendations when necessary for preventing overexposures. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.

Eye/face protection: Wear helmet, face shield or eye protection with filter lens shade number 2 for torch soldering and 3-4 for torch brazing, and follow the recommendations as specified in ANSI Z49.1, Section 4, based on your process details. Shield others by providing appropriate screens and eye protection. Wear safety glasses with side shields (or goggles).

Skin Protection



Hand Protection:	Wear protective gloves. Suitable gloves can be recommended by the glove supplier.
Other:	Protective Clothing: Wear hand, head, and body protection which help to prevent injury from radiation, open flames, hot surfaces, sparks and electrical shock. See Z49.1. At a minimum, this includes welder's gloves and a protective face shield when welding, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing when welding, brazing and soldering. Wear dry gloves free of holes or split seams. Train the operator not to permit electrically live parts or electrodes from contacting the skin or clothing or gloves if they are wet. Insulate yourself from the work piece and ground using dry plywood, rubber mats or other dry insulation. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	Keep your head out of fumes. Use enough ventilation and local exhaust to keep fumes and gases from your breathing zone and the general area. An approved respirator should be used unless exposure assessments are below applicable exposure limits.
Hygiene measures:	Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits. See ANSI/AWS F1.1, F1.2, F1.3 and F1.5, available from the American Welding Society, www.aws.org. Wash contaminated clothing before reuse. Avoid contact with skin. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Wash hands after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

9. PHYSICAL AND CHEMICAL PROPERTIES

•	D : 4
Appearance:	Brazing flux.
Physical state:	Paste
Form:	Paste
Color:	White
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling	No data available.
range:	
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability	or explosive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.



Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1.6 g/cm3
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n- octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. STABILITY AND REACTIVITY

Reactivity:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	None under normal conditions.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Strong acids. Strong oxidizing substances. Strong bases.
Hazardous Decomposition Products:	Fumes and gases from welding and its allied processes such as brazing and soldering cannot be classified simply. The composition and quantity of both are dependent upon the metal to which the joining or hot work is applied, the process, procedure - and where applicable - the electrode or consumable used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded or worked (such as paint, plating, or galvanizing), the number of operators and the volume of the work area, the quality and amount of ventilation, the position of the operator's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities.)
	In cases where an electrode or other applied material is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Decomposition products of normal operation include those originating from the volatilization, reaction, or oxidation of the materials shown in Section 3, plus those from the base metal and coating, etc., as noted above. Reasonably expected fume constituents produced during arc welding and brazing include the oxides of iron, manganese and other metals present in the welding consumable or base metal. Hexavalent chromium compounds may be in the welding or brazing fume of consumables or base metals which contain chromium. Gaseous and particulate fluoride may be in the fume of consumables or flux materials which contain fluoride. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and



nitrogen oxides may be formed by the radiation from the arc associated with welding.

11. TOXICOLOGICAL INFORMATION

General information:	The International Agency for Research on Cancer (IARC) has determined welding fumes and ultraviolet radiation from welding are carcinogenic to humans (Group 1). According to IARC, welding fumes cause cancer of the lung and positive associations have been observed with cancer of the kidney. Also according to IARC, ultraviolet radiation from welding causes ocular melanoma. IARC identifies gouging, brazing, carbon arc or plasma arc cutting, and soldering as processes closely related to welding. Read and understand the manufacturer's instructions, Safety Data Sheets and the precautionary labels before using this product.
Information on likely routes of e Inhalation:	exposure Inhalation is the primary route of exposure. In high concentrations, dust, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Toxic in contact with skin.
Eye contact:	HEAT RAYS (INFRARED RADIATION) from flame or hot metal can injure eyes.
Ingestion:	Avoid ingestion - wear gloves and other appropriate personal protection - wash hands thoroughly following use or handling. Harmful if swallowed.
Symptoms related to the physic	al, chemical and toxicological characteristics
Inhalation:	Short-term (acute) overexposure to fumes and gases from brazing and soldering may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre- existing respiratory problems (e.g. asthma, emphysema). Long-term (chronic) overexposure to fumes and gases from brazing and soldering can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Products which contain lead or cadmium have additional specific health hazards - refer to Sections 2, 8 and 11 of this SDS. Depending on specific product composition, some products may produce hazardous concentrations of airborne oxides of cadmium, lead, zinc or fluoride compounds. Use adequate ventilation and respiratory protection during use. Avoid breathing fumes. Avoid ingestion - wear gloves and other appropriate personal protection - wash hands thoroughly following use or handling. Inhalation of fumes may cause upper respiratory tract irritation and systemic poisoning with early symptoms including headache, coughing, and a metallic taste as well as metal fume fever. Chronic cadmium exposure causes lung and kidney damage. Chronic exposure to lead causes damage to lungs, liver, kidney, nervous system as well as blood and musculoskeletal disorders. Exposures to high levels of cadmium or lead dust or fume may be immediately dangerous to life or health and can cause delayed pneumonitis with fever and chest pain, and pulmonary edema resulting in death.

Information on toxicological effects Acute toxicity (list all possible routes of exposure)		
Oral Product: Specified substance(s):	ATEmix: 493.95 mg/kg	
Potassium	LD 50 (Rat): 875 mg/kg	



difluorodihydroxyborate(1		
-) Potassium fluoride	LD 50 (Rat): 245 mg/kg	
Dermal Product:	ATEmix: 1,000 mg/kg	
Inhalation Product: Specified substance(s):	ATEmix: 1.7 mg/l	
Potassium fluoride	LC 50 (Rat, 4 h): 1 mg/l	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	Not classified	
Serious Eye Damage/Eye Irritatior Product:	Not classified	
Respiratory or Skin Sensitization Product:	Respiratory Sensitization: Not classified Skin Sensitization: Not classified	
Carcinogenicity Product:	Not classified	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified		
No carcinogenic component	s identified rogram (NTP) Report on Carcinogens:	
No carcinogenic component US. National Toxicology P No carcinogenic component	s identified rogram (NTP) Report on Carcinogens: s identified gulated Substances (29 CFR 1910.1001-1050), as amended:	
No carcinogenic component US. National Toxicology P No carcinogenic component US. OSHA Specifically Reg No carcinogenic component Germ Cell Mutagenicity	s identified rogram (NTP) Report on Carcinogens: s identified gulated Substances (29 CFR 1910.1001-1050), as amended:	
No carcinogenic component US. National Toxicology P No carcinogenic component US. OSHA Specifically Reg No carcinogenic component	s identified rogram (NTP) Report on Carcinogens: s identified gulated Substances (29 CFR 1910.1001-1050), as amended:	
No carcinogenic component US. National Toxicology P No carcinogenic component US. OSHA Specifically Reg No carcinogenic component Germ Cell Mutagenicity In vitro	s identified rogram (NTP) Report on Carcinogens: s identified gulated Substances (29 CFR 1910.1001-1050), as amended: s identified	
No carcinogenic component US. National Toxicology P No carcinogenic component US. OSHA Specifically Reg No carcinogenic component Germ Cell Mutagenicity In vitro Product: In vivo	s identified rogram (NTP) Report on Carcinogens: s identified gulated Substances (29 CFR 1910.1001-1050), as amended: s identified Not classified	
No carcinogenic component US. National Toxicology P No carcinogenic component US. OSHA Specifically Reg No carcinogenic component Germ Cell Mutagenicity In vitro Product: In vivo Product: Reproductive toxicity	s identified rogram (NTP) Report on Carcinogens: s identified gulated Substances (29 CFR 1910.1001-1050), as amended: s identified Not classified Not classified Suspected of damaging fertility or the unborn child.	
No carcinogenic component US. National Toxicology P No carcinogenic component US. OSHA Specifically Reg No carcinogenic component Germ Cell Mutagenicity In vitro Product: In vivo Product: Reproductive toxicity Product: Specific Target Organ Toxicity -	s identified rogram (NTP) Report on Carcinogens: s identified gulated Substances (29 CFR 1910.1001-1050), as amended: s identified Not classified Not classified Suspected of damaging fertility or the unborn child. Single Exposure Not classified	

Symptoms related to the physical, chemical and toxicological characteristics under the condition of use



Additional toxicological Information under the conditions of use:

Acute toxicity Inhalation Specified substance(s): Carbon dioxide Carbon monoxide Nitrogen dioxide Ozone	LC Lo (Human, 5 min): 90000 ppm LC 50 (Rat, 4 h): 1300 ppm LC 50 (Rat, 4 h): 88 ppm LC Lo (Human, 30 min): 50 ppm
Other effects: Specified substance(s): Carbon dioxide Carbon monoxide Nitrogen dioxide	Asphyxia Carboxyhemoglobinemia Lower respiratory tract irritation

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute hazards to the aquatic environment: Fish				
Product:	Not classified			
Aquatic Invertebrates Product:	Not classified			
Chronic hazards to the aquatic Fish	environment:			
Product: Specified substance(s):	Not classified			
Potassium fluoride	NOAEL (Oncorhynchus mykiss, 21 d): 4 mg/l			
Aquatic Invertebrates Product: Specified substance(s): Potassium fluoride	Not classified NOAEL (Daphnia magna, 21 d): 14.1 mg/l NOAEL (Daphnia magna, 21 d):			
r otassium nuonue	3.7 mg/l			
Toxicity to Aquatic Plants Product:	No data available.			
Persistence and Degradability Biodegradation Product:	No data available.			
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available.			
Mobility in soil:	No data available.			

13. Disposal considerations

General information:	The generation of waste should be avoided or minimized whenever
	possible. When practical, recycle in an environmentally acceptable,
	regulatory compliant manner. Dispose of non-recyclable products in
	accordance with all applicable Federal, State, Provincial, and Local



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Disposal instructions:Discharge, treatment, or disposal may be subject to national, state, or local
laws.Contaminated Packaging:Dispose of contents/container to an appropriate treatment and disposal
facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

14. TRANSPORT INFORMATION

DOT UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant:	NOT DG REGULATED NR – – No
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group: Marine Pollutant:	NOT DG REGULATED NR - No
IATA UN Number: Proper Shipping Name: Transport Hazard Class(es): Class: Label(s): Packing Group: Marine Pollutant: Cargo aircraft only:	NOT DG REGULATED NR - No Allowed.
TDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant:	NOT DG REGULATED NR – – No

15. REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.



CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route of exposure) Reproductive toxicity

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity

Potassium difluorodihydroxyborate(1-) Potassium fluoride

Threshold Planning Quantity 10000 lbs

10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated guantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

WARNING: This product contains or produces a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code Section 25249.5 et seq.) WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act Chemical Identity Potassium fluoride

US. Massachusetts RTK - Substance List No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances **Chemical Identity** Potassium fluoride

US. Rhode Island RTK **Chemical Identity**

Potassium difluorodihydroxyborate(1-) Potassium fluoride

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1) Not Regulated



Export Control List (CE Not Regulated	PA 1999, Schedule 3)
National Pollutant Relea Canada. National Po Reporting Requirem NPRI PT5	ollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional
Canada. National Po NPRI	bllutant Release Inventory (NPRI) (Schedule 1, Parts 1-4) Not Regulated
Greenhouse Gases Not Regulated	
Controlled Drugs and S	ubstances Act
CA CDSI	Not Regulated
CA CDSII	Net De sulete d
	Not Regulated
CA CDSIII	Not Regulated

CA CDSV Not Regulated CA CDSVII Not Regulated

CA CDSVIII Not Regulated

Precursor Control Regulations

Not Regulated

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR): Not applicable

Inventory Status:

A	Australia AICS:	On or in compliance with the inventory
	Canada DSL Inventory List:	One or more components are not listed or are exempt from listing.
	EINECS, ELINCS or NLP:	On or in compliance with the inventory
J	apan (ENCS) List:	One or more components are not listed or are exempt from listing.
C	China Inv. Existing Chemical Substances:	On or in compliance with the inventory
k	Korea Existing Chemicals Inv. (KECI):	One or more components are not listed or are exempt from listing.
C	Canada NDSL Inventory:	One or more components are not listed or are exempt from listing.
F	Philippines PICCS:	One or more components are not listed or are exempt from listing.
	JS TSCA Inventory:	One or more components are not listed or are exempt from listing.
	New Zealand Inventory of Chemicals:	On or in compliance with the inventory
	apan ISHL Listing:	One or more components are not listed or are exempt from listing.
	apan Pharmacopoeia Listing:	One or more components are not listed or are exempt from listing.
	/lexico INSQ:	One or more components are not listed or are exempt from listing.
	Ontario Inventory:	One or more components are not listed or are exempt from listing.
٦	aiwan Chemical Substance Inventory:	One or more components are not listed or are exempt from listing.

16. OTHER INFORMATION

Definitions:

Revision Date:	04/13/2020
Further Information:	Additional information is available by request.
Disclaimer:	The Lincoln Electric Company urges each end user and recipient of this SDS



to study it carefully. See also www.lincolnelectric.com/safety. If necessary, consult an industrial hygienist or other expert to understand this information and safeguard the environment and protect workers from potential hazards associated with the handling or use of this product. This information is believed to be accurate as of the revision date shown above. However, no warranty, expressed or implied, is given. Because the conditions or methods of use are beyond Lincoln Electric's control, we assume no liability resulting from the use of this product. Regulatory requirements are subject to change and may differ between various locations. Compliance with all applicable Federal, State, Provincial, and local laws and regulations remain the responsibility of the user.

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STIHL HP (HIGH PERFORMANCE) 2-CYCLE ENGINE OIL

Packaged for Stihl Incorporated, 536 Viking Drive, Virginia Beach, VA 23452



Safety Data Sheet Conforms to HCS 2012 (29 CFR 1910.1200)

Section 1. Identification

Product identifier Product Name:	STIHL HP (High Performance) 2-Cycle Engine Oil
Other names:	F3E
Part/Product Number(s):	0781-319-8008, 0781-319-8009, 0781-319-8010, 0781-319-8014 , 0781-319-8015 , 0781-319-8016 , 0781-319-8044 , 0781-319-8045 , 0781-319-8049 , 0781-319-8051, 7010-871-0208 , 7010-871-0177
Material Use:	2-cycle engine fuel additive
Uses advised against:	Not for use in non-2-cycle engines
Manufacturer:	Omni Specialty Packaging, LLC 10399 Hwy 1 South Shreveport, LA 71115 1-318-524-1100
Issuing date:	May 21, 2015
Revision date:	June 2, 2015
Revision number:	001
Company contact:	OMNI EHS Department; E-Mail: <u>sds@osp.cc;</u> Contact phone: 318-524-1100 (Monday-Friday, 8:00 AM – 4:00 PM, CST)
In case of emergency:	CHEMTREC: Within USA and Canada: 1 (800) 524-9300 (24/7) CHEMTREC Outside USA and Canada: +1 703-527-3887 (24/7)

Section 2. Hazards Identification

OSHA/HCS Status:	This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the su	Classification of the substance or Mixture: Not classified		
GHS Label Elements			
Hazard pictograms:			
Signal word:	None		
Appearance:	Blue Physical State:	Liquid	Odor: Petroleum distillates
Hazard statement:	None		
Precautionary statements			
General:	Read label before use. Keep out container or label at hand.	of reach of children	n. If medical advice is needed, have product
Prevention:	Not applicable		
Response:	Not applicable		
Storage:	Not applicable		
Disposal:	Not applicable		
Hazards not otherwis	se classified (HNOC): Defatting to t	the skin.	

Other information: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

Section 3. Composition/Information on Ingredients

Petroleum mineral oil lubricant base stock with proprietary performance additives mixture.

Substance/mixture: Mixture		
Components Name	CAS number	Weight %*
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50)	Various	85 – 95
2-Cycle Engine Oil Additives Mixture	Proprietary	5 – 15

This product does not contain known hazardous materials at the \geq 1% level or known carcinogens at the \geq 0.1% level as defined by 29 CFR 1910.1200.

* The exact percentage of composition has been withheld as a trade secret.

Section 4. First Aid Measures		
Description of necessary firs	st aid measures	
General Advice:	No specific first aid measures are required. Get medical attention if irritation develops and persists.	
Eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation develops and persists.	
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation or allergic reaction develops and persists.	
Inhalation:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. If inhaled, remove to fresh air. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.	
Ingestion:	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.	
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8).	

Most important symptoms and effects, both acute and delayed See Section 11 for more detailed information on health effects and symptoms.

Most Important Symptoms and Effects:	Personnel with pre-existing skin disorders should avoid contact with this product. Under normal use conditions, no adverse effects to health are known.
Eye contact:	Not expected to cause prolonged or significant eye irritation.
Skin contact:	Contact with skin is not expected to cause prolonged or significant irritation. Contact with skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.
Inhalation:	Not expected to be harmful if inhaled. Contains petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficult breathing.
Ingestion:	Not expected to be harmful if swallowed.
Note to physician:	Treat symptomatically.

Section 5. Fire-Fighting Measures

Uniform Fire Code:	Class IIIB
Flash Point:	222°C (432°F)
Extinguishing Media	
Suitable Media:	In case of fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water fog, alcohol resistant foam, dry chemical, carbon dioxide (CO2) extinguisher or spray.
Unsuitable Media:	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific Hazards Arising from the Chemical:	Keep product and empty container away from heat and sources of ignition as product will burn. Contact with strong oxidizers may cause fire. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be contained, prevented from being discharged to any waterway, sewer or drain and disposed of in accordance with local regulations.
Hazardous Combustion Products:	Combustion products may include the following: Carbon dioxide (CO2) Carbon monoxide (CO), and Nitrogen oxides.
Protection of Fire Fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. See also the information in "For non-emergency personnel".
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for ecological information.

Methods and materials for containment and cleaning up

- **Small Spills:** Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large Spills: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures: Eye protection and face shield should be used if material is used under conditions that increase the chances of splattering. Put on appropriate personal protective equipment (see Section 8). Keep out of reach of children. NOTE: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary. Advice on general occupational hygiene: Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Conditions for safe storage, Including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Avoid contaminating soil or releases into sewage or drainage systems and bodies of water.

Section 8. Exposure Controls/Personal Protection

Control parameters Occupational Exposure Limits

Occupational Exposure Limits		100		001			
Chemical name		ACGIH		OSHA		NIOSH	
		TLV	STEL	PEL	STEL	TWA	Ceiling
Lubricant Base Oil (Petroleum)		5 mg/m3	10 mg/m3	5 mg/m3			
Highly refined mineral oils (C15-C50)		(mist)	(mist)	(mist)	_	-	-
Appropriate engineering controls:		od general ventila taminants. Emer				er exposure t	o airborne
Environmental exposure controls: Individual protection measures	the cas	issions from ven y comply with the es, fume scrubb ipment will be n	e requirement ers, filters or	ts of environm engineering m	ental protec odifications	tion legislati to the proce	on. In som ess
Hygiene measures:	befo peri con	sh hands, forear ore eating, smok iod. Appropriate taminated clothi wash stations ar	ting and using techniques sing. Wash cor	g the lavatory a hould be used ntaminated clo	and at the en to remove p thing before	nd of the wo potentially reusing. E	rking nsure that
Eye/Face Protection:	Wear safety glasses with side shields. A face shield may be necessary un some conditions.		nder				
Skin and Body Protection	3011	le conditions.					
Hand protection:	che	ar protective glo mical resistant g Standard Operatio	gloves. Reco	mmended: Nitr	ile gloves. C	Consult your	supervisor
Body protection:		protective equipr					

task being performed and the risks involved.

- Other skin protection:Appropriate footwear and any additional skin protection measures should be
selected based on the task being performed and the risks involved.
- **Respiratory protection:** No respiratory protection is normally required. If user operation generates an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Section 9. Physical and Chemical Properties

Appearance	(Typical or Target)
Physical State:	Liquid
Color:	Blue
Odor:	Petroleum distillates
Odor threshold:	Not available
pH:	Not applicable
Boiling Point:	Not available
Flash Point (Closed cup):	222°C (432°F) (Typical or Target)
Pour Point:	-25°C (-13°F) (Typical or Target)
Evaporation rate (Butyl acetate = 1):	Not available
Flammability (solid, gas):	Not applicable. Based on - Physical state
Flammable) Limit in Air	Not available
Vapor pressure:	Not available
Vapor density (Air = 1):	>1
Relative density:	0.8820 - 0.8990 g/l at 15°C (Typical or Target)
Solubility:	In soluble in water
Partition coefficient (n-Octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity – Kinematic (cSt (mm2/s)@ 40°C):	85 to 100
Viscosity – Kinematic (cSt (mm2/s) @ 100°C)	:10.3 to 12
VOC %:	<0.026%

Section 10. Stability and Reactivity

Reactivity:	Not reactive under normal storage conditions
Chemical stability:	Stable under normal storage conditions
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, flames and sparks.
Incompatible materials:	Oxidizing agents, Halogens, Halogenated compounds
Hazardous decomposition products:	May include: Fumes, Oil vapors, Smoke, Carbon Oxides (including carbon monoxide and carbon dioxide), Aldehydes, Nitrogen oxides, and incomplete combustion products.

Section 11. Toxicological Information Information on toxicological effects Basis for Assessment: Information given is based on product data, a knowledge of the components and the toxicity of similar products. Likely Routs of Exposure: Exposure may occur via skin absorption, skin or eye contact, inhalation, ingestion.

Substance/Mixture

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15- C50) Mixture - Typical	>2000 mg/Kg (rat)	>2000 mg/Kg (rabbit)	>2.18 mg/L (rat) 4h (mist)

Aspiration hazard:	Not expected to be an aspiration hazard.
Skin Corrosion/Irritation:	No known significant effects or critical hazards.
Serious Eye Damage/Irritation:	No known significant effects or critical hazards.
Skin Sensitization:	No known significant effects or critical hazards.
Respiratory Sensitization:	No known significant effects or critical hazards.
Specific Target Organ Toxicity (Single Exposure) - STOT-SE: Specific Target Organ Toxicity	No known significant effects or critical hazards.
(Repeated Exposure) – STOT-RE:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Germ Cell Mutagenicity:	No known significant effects or critical hazards.
Reproductive Toxicity	No known significant effects or critical hazards.

Information on Toxicity Effects of Compounds

Lubricant Base Mineral Oil (Petroleum)

Mineral oils are known to cause cancer because of carcinogenic components (e.g. Benzene). The lubricant base mineral oils in this product have been highly refined by a variety of processes including severe solvent extraction, severe hydro cracking or severe hydro treating to reduce aromatics and improve performance characteristics. The oils in the is product meets the IP-346 criteria of less than 3 percent PHA's and are not considered to be a carcinogen by the International Agency for Research on Cancer.

None of the oils in this product requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IRAC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

2-Cycle engine oils mix with gasoline:

2-cycle engine oils diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

Section 12. Ecological Information

The information is based on data available for the material, the components of the material, and similar materials.

Ecotoxicity: No testing has been performed by the manufacturer. Ecotoxicity hazard is based on an evaluation of data for the components or a similar material. Not expected to be harmful to aquatic organisms.

Mobility:	Base oil component – Low solubility and floats and is expected to migrate from water to land. Expected to partition to sediment and wastewater solids.
Soil/water partition coefficient (Koc):	Not available.
Persistence and degradation Biodegradation:	The material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.
Bioaccumulative potential Bioaccumulation:	This product is not expected to bioaccumulate through food chain in the environment.
Other adverse effects:	No known significant effects or critical hazards.

Other ecological informatio	 Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.
Section 13. Dispos	sal Considerations
Disposal recommendations b	ased on material supplied.
Waste treatment methods:	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Consult the appropriate state, regional, or local regulations for additional requirements. The generation of waste should be avoided or minimized wherever possible.
Product waste:	Significant quantities of waste product residues should not be disposed of via the sanitary sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Incineration or landfill should only be considered when recycling is not feasible. Oil collection services are available for used oil recycling.
Contaminated packaging:	Empty containers or liners may retain some product residues and could pose a potential fire and explosion hazard. Do not cut, puncture, or weld containers.
Other information:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

General information: Petroleum Lubricating oil - Not regulated.

	DOT Classification	IMDG	IATA
Stihl HP 2-Cycle	Not Regulated	Not Regulated	Not Regulated

Special precautions for user: Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory Information

United States Regulations

United States Inventory (TSC SARA 302/304:	A 8b): All components are listed or exempted. No products were found.		
<u>SARA 311/312</u> :	Immediate (Acute) Health Effects:NoDelayed (Chronic) Health Effects:NoFire Hazard:NoSudden Release of Pressure Hazard:NoReactivity Hazard:No		
<u>SARA 313</u> : The following components of t None	nis material are found on the EPCRA 313 list:		
Supplier notification:	This product does not contain any hazardous ingredients at or above regulated thresholds.		
CWA (Clean Water Act):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)		
CERCLA:	This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).		

State Regulations	
Massachusetts:	None of the components are at or above regulated thresholds.
New Jersey:	None of the components are at or above regulated thresholds.
Pennsylvania:	None of the components are at or above regulated thresholds.
California Proposition 65:	WARNING: This product contains a chemical known to the State of California to cause cancer.
	Ethylbenzene - <0.1

<u>Canada</u>

WHMIS Hazard Class: Not classified.

International Chemical Inventories:

All components comply with the following chemical inventory requirements: DSL (Canada)

Section 16. Other Information

NFPA Rating:	Health Hazard – 1	Flammability – 1	Instability/Reactivity – 0
HMIS Rating:	Health Hazard – 1	Flammability – 1	Physical Hazards – 0

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; * - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

Key to abbreviations:

OOLIA - Opening attempt Operation and the althought of desired at an time	
OSHA = Occupational Safety and Health Administration	LogPow = logarithm of the octanol/water partition coefficient
ACGIH= American Conference of Industrial Hygienists	OEL = Occupational Exposure Limit
ATE = Acute Toxicity Estimate	SDS = Safety Data Sheet
BCF = Bioconcentration Factor	STEL = Short term exposure Limit
CAS = Chemical Abstracts Service Registry Number	UN = United Nations
cSt = Centistroke (mm2/s)	UN Number = United Nations Number, a four digit number
GHS = Global Harmonized System of Classification and Labeling	assigned by the United Nations Committee of Experts on
Of Chemicals.	the Transportation of Dangerous Goods
IATA = International Air Transport Association	
IBC = Intermediate Bulk Container	
IMDG = International Maritime Dangerous Goods	

Prepared By: OMNI Specialty Packaging EH&S Department

Revision Date: June 2, 2015

Status: Final

Revision Note: Revision 001 of OSHA GHS SDS format.

Consumer Product Improvement Act of 2008, General Conformity Certification

For Consumer Product Packages: This product has been evaluated and is certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission. Where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No testing is required to certify compliance with the provisions. The date of the manufacturing is stamped on the product container.

Disclaimer

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

AUSTRALIA

www.rustoleum.com.au

1. Identification			
Product Name:	STRUST QT 2PK GLOSS SMOKE GRAY	Revision Date:	3/30/2020
Name on Label:	Protective Enamel	Supercedes Date:	7/26/2018
Product Identifier:	7786502		
Product Use/Class:	Topcoat/Alkyd		
Supplier:	Rust-Oleum Australia & New Zealand Pty. Ltd. 8 Lakeview Drive Scoresby, Melbourne, Victoria 3179 Australia Ph 1 300 784 476	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Emergency Telephone: 24 Hour Hotline: 1-300-366-961

2. Hazard Identification

This product is not classified as a Dangerous Good per the Australian Code for the Transport of Dangerous Goods by Road and Rail. This product was assessed per Safe Work Australia criteria.

Classification

Symbol(s) of Product



Signal Word Danger

Possible Hazards

4% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS

Carcinogenicity, category 1A	H350	May cause cancer.
Flammable Liquid, category 3	H226	Flammable liquid and vapor.
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects.

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO SMOKING.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P370+P378	In case of fire: Use alcohol film forming foam, carbon dioxide, dry chemical, dry sand to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

P501

Dispose of contents/container in accordance with local, regional and national regulations.

GHS SDS PRECAUTIONARY STATEMENTS

240	Ground/bond container and receiving equipment.
241	Use explosion-proof electrical/ventilating/lighting/equipment.
242	Use only non-sparking tools.
243	Take precautionary measures against static discharge.

3. Composition/Information On Ingredients

HAZARDOUS SUBSTANCES

CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
64742-47-8	50-75	GHS08	H304
13463-67-7	2.5-10	Not Available	Not Available
96-29-7	0.1-1.0	GHS05-GHS06- GHS08	H302-312-317-318-331-351
1333-86-4	0.1-1.0	GHS08	H373
64742-48-9	0.1-1.0	GHS08	H304-340-350
100-41-4	0.1-1.0	GHS02-GHS07	H225-315-319-332
136-52-7	0.1-1.0	GHS08	H317-319-334-350-372
	64742-47-8 13463-67-7 96-29-7 1333-86-4 64742-48-9 100-41-4	Range 64742-47-8 50-75 13463-67-7 2.5-10 96-29-7 0.1-1.0 1333-86-4 0.1-1.0 64742-48-9 0.1-1.0 100-41-4 0.1-1.0	Range 64742-47-8 50-75 GHS08 13463-67-7 2.5-10 Not Available 96-29-7 0.1-1.0 GHS05-GHS06-GHS08 1333-86-4 0.1-1.0 GHS08 64742-48-9 0.1-1.0 GHS08 100-41-4 0.1-1.0 GHS02-GHS07

The balance of the product is Nonhazardous.

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: If swallowed, get medical attention.

5. Fire-fighting Measures

ADG HAZCHEM CODE: N.A.

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode when exposed to extreme heat due to buildup of steam. Keep containers tightly closed. Combustible liquid and vapor. No unusual fire or explosion hazards noted.

SPECIAL FIREFIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Avoid excess heat.

Advice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	WHS WES TLV-TWA	WHS WES TLV-STEL
Hydrotreated Light Distillate	64742-47-8	55.0	N.E.	N.E.
Titanium Dioxide	13463-67-7	5.0	10 mg/m3	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.
Carbon Black	1333-86-4	1.0	3 mg/m3	N.E.
Naphtha, Hydrotreated Heavy	64742-48-9	1.0	N.E.	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.
Cobalt 2-Ethylhexanoate	136-52-7	1.0	N.É.	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Appearance:	Liquid	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Specific Gravity:	0.918	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Negligible	Partition Coefficient, n-octanol/	
Decompostion Temp., °C:	N.D.	water:	N.D.
Boiling Range, °C:	136 - 537	Explosive Limits, vol%:	0.5 - 6.6
Flammability:	Supports Combustion	Flash Point, °C:	41
Evaporation Rate:	Slower than Ether	Auto-ignition Temp., °C:	N.D.
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: No Information

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Substance causes moderate eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Substance may cause slight skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to the nose, throat and respiratory tract. Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the actual concentration of the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	2500 mg/kg	N.Ĕ.
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat
1333-86-4	Carbon Black	>15400 mg/kg Rat	N.E.	N.É.
64742-48-9	Naphtha, Hydrotreated Heavy	>6000 mg/kg Rat	>3160 mg/kg Rabbit	N.E.
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
136-52-7	Cobalt 2-Ethylhexanoate	N.E.	>5000 mg/kg Rabbit	N.E.

N.E. - Not Established

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	<u>ADG</u>
UN Number:	N.A.	1263	1263	N.A.
Proper Shipping Name:	Not Regulated	Paint	Paint	Not Regulated
Hazard Class:	N.A.	3	3	N.A.
Packing Group:	N.A.	Ш	Ш	N.A.
Limited Quantity:	No	Yes	Yes	No
ADG Hazchem Code:	N.A.			

15. Regulatory Information

Montreal Protocol

No Montreal Protocol components exist in this product.

Stockholm Convention

No Stockholm Convention components exist in this product.

Rotterdam Convention

No Rotterdam Convention components exist in this product.

MARPOL

This product contains the following substances listed under the MARPOL regulations:

Chemical Name	CAS-No.
n-Nonane	111-84-2
1,3,5-Trimethylbenzene	108-67-8
Naphthalene	91-20-3

SUSMP

This product contains the following substances classified as poisons as regulated by the Poisons Standard (SUSMP):

Chemical Name

Liquid Hydrocarbo	ons
-------------------	-----

Schedule Number(s)

Schedule 5

Capital Territories Environmental Regulations

This product contains the following substances listed under the Australian Capital Territories Environmental Protection Regulation:

Chemical Name	<u>Schedule</u>	Schedule Name
Ethylbenzene	3	Non-pesticide Anthropogenic Organics
Xylenes (o-, m-, p- Isomers)	3	DOM - Organic Chemicals

SDS REVISION DATE:	3/30/2020
REASON FOR REVISION:	Substance Chemical Name Changed Product Composition Changed Substance Hazard Threshold % Changed Substance and/or Product Properties Changed in Section(s): 01 - Identification 02 - Hazard Identification 03 - Composition/Information on Ingredients 05 - Fire-fighting Measures 08 - Exposure Controls/Personal Protection 09 - Physical & Chemical Properties 11 - Toxicological Information Substance Hazardous Flag Changed Revision Statement(s) Changed
Legend: N.A Not Applicable N.D Not	Determined N.E Not Established

N.A. - Not Applicable N.D. - Not Determined N.E. - Not Established S.T.E.L. - Short Term Exposure Limit T.W.A. - Time Weighted Average W.E.S. - Workplace Exposure Standard W.H.S. - Work Health and Safety regulation

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

MATERIAL SAFETY DATA SHEET

U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200

The Steco Corporation	Emergency Response:	(800) 255-3924
2330 Cantrell Road	Information:	(800) 643-8026
P.O. Box 2238	Fax:	(501) 374-4278
Little Rock, AR 72203	Date Reviewed:	<u>August 15, 2011</u>

TRADE NAME CHEMICAL NAME & SYNONYMS DOT SHIPPING NAME IATA SHIPPING NAME HMIS/NFPA CODE MANUFACTURING CODE NO.: COMMODITY CODE NO.: **TAP MAGIC PROTAP Cutting Fluid** Hydrocarbon Mixture Not a Regulated Material No hazard label required, no limit on quantity Health 0; Fire 1; Reactivity 0 8358 332-9150

I. HAZARDOUS INGREDIENTS

This product contains no toxic or hazardous ingredients by OSHA criteria; however, as with any chemical product, exposure to liquids, vapors, mists and fumes should be minimized.

II. INGREDIENTS

Aliphatic Organic Acid	:	CAS# 112-80-1	>75% mixture
Aliphatic Organic Ester	:	CAS# 112-62-9	<15% mixture
Organic Polyol	:	CAS# None Assigned	<10% mixture

III. PHYSICAL DATA

BOILING RANGE, (760 mm Mercury)	:	680 to 1000° F
SPECIFIC GRAVITY (Water = 1) (lbs/gal)	:	(0.894) 7.46 lbs/gal
VAPOR PRESSURE (mm of Mercury) @ 75° F	:	Less Than 1
VAPOR DENSITY (Air = 1)	:	Greater Than 5
SOLUBILITY IN WATER, % by weight	:	Less Than 1 (Insoluble)
EVAPORATION RATE (Butyl Acetate = 1)	:	Less Than 0.01
% VOLATILE BY VOLUME @ 75° F	:	Less Than 1
APPEARANCE	:	Yellow Liquid
ODOR	:	Pleasant
pH	:	Nonaqueous

IV. FIRE & EXPLOSION DATA

LOWER FLAMMABLE LIMIT IN AIR (% by Volume)	:	1.0
UPPER FLAMMABLE LIMIT IN AIR (% by Volume)	:	15
FLASH POINT, PMCC	:	370° F
AUTOIGNITION TEMPERATURE	:	685° F
EXTINGUISHING MEDIA	:	Foam, Carbon Dioxide, Dry Chemical

V. HEALTH HAZARD INFORMATION

ROUTES OF ENTRY : EFFECTS OF ACUTE OVEREXPOSURE:	Ingestion is the primary method of possible entry. INHALATION: (Unlikely due to low vapor pressure).
EFFECTS OF ACUTE OVEREAFOSURE.	
	Mist may cause headache, nasal, respiratory and eye irritation.
	INGESTION: Headache, drowsiness, nausea, fatigue.
	EYES: May cause pain and irritation.

	N CONTACT: Prolonged or repeated exposure may se irritation.		
CARCINOGENICITY : Not	a carcinogen or suspect carcinogen.		
EMERGENCY AND FIRST AID PROCEDURES: EYE min	tes. Supportive treatment is recommended.		
	N: Wash with mild soap and water. Remove wetted		
INH	ALATION: Remove to fresh air.		
ING	ESTION: Do not induce vomiting. Call a physician		
and	or transport to emergency medical facility.		
VI. REACTIVITY DATA			

Materials such as sawdust or cloth rags which have been wetted with lubricant may be subject to spontaneous combustion during storage.

VII. DISPOSAL, SPILL OR LEAK PROCEDURES

AQUATIC TOXICITY : SPILL OR LEAK PROCEDURES: WASTE DISPOSAL METHOD : Aquatic toxicity is low: Product is not soluble in water. <u>Biodegradable</u>. Absorb with inert materials. Remove to out of doors and incinerate. PROTAP contains no environmentally hazardous substances. Small amounts may be incinerated in compliance with local, state and federal regulations. The recommended method of disposal for large quantities is recycling by a reclaimer or incineration. "If inert absorbents are employed in spill containment or cleanup, these absorbents must be non-biodegradable materials if destined for landfill disposal. Suitable absorbents include natural minerals (clay), activated charcoal, manmade polymers (HD polyethylene)."

VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION:Standard eye protection should be worn when using this product.SKIN PROTECTION:No special protection is needed. However, good personal hygiene practices should be
followed.RESPIRATORY:If application to which this product is being applied generates excessive mist or fumes, then

appropriate respiratory protective equipment should be used. No special requirements under ordinary condition and use and proper ventilation of work area.

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

IX. SPECIAL PRECAUTIONS

Product is ignitable, keep away from open flames. Do not expose to ignition sources. Do not store with strong oxidizers such as nitrates or perchlorates or oxygen under pressure. May cause swelling of some plastics and synthetic rubbers.

X. ADDITIONAL INFORMATION

Tap Magic PROTAP DOES NOT CONTAIN 1,1,1-trichloroethane or any ozone depleting substances. PROTAP does not contain chlorine, phosphorous, active sulfur, nitrates, nitrite derivatives, amines, polynuclear aromatic compounds either as ingredients or trace contaminants. Shelf life is indefinite at ambient temperatures and left in original containers.

Tap Magic PROTAP does not contain any chemical compound listed on the SARA list of 'Extremely Hazardous Chemicals', and is in compliance with all of the requirements of the TSCA at the time of shipment.

Caution: Any cutting fluid can be "overworked" or "overheated", causing it to break down. This overuse is identified by the sight of or strong odor of vapors or fumes not normally present. The effects of these vapors or fumes on human health have not been fully determined. After use of this product, clean and lubricate

By: Asa L. Morton, Chief Chemist, American Interplex Corporation, Little Rock, AR 72204, (501) 224-5060

Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: June 01, 2017

Revision: June 01, 2017

Product ident	ifier
Trade name: <u>T</u> a	ap Magic PROTAP Liquid
Other means o	f identification: No other identifiers
Recommended	l use and restriction on use I use: Machining, Cutting, Tapping, and Metal Processing. I use: No relevant information available.
Details of the Manufacturer/S The Steco Corp 2330 Cantrell R Little Rock, AR (501) 375-5644	oration oad
ChemTel Inc.	ephone number: (North America)
+1 (813)248-05	35 (International)
+1 (813)248-056 Hazard(s) id Classification	entification of the substance or mixture 20. Causes eve irritation.
+1 (813)248-056 Hazard(s) id Classification Eye Irrit. 2B H3 Label elemen GHS label elem This product is Commission. G industrial/profes The product is of Hazard pictogr Signal word: W Hazard statemen H320 Causes ef Precautionary Not regulated. P264	entification entification of the substance or mixture 20 Causes eye irritation. ts nents a consumer product and is labeled in accordance with the US Consumer Product S HS labeling is not required per 29CFR1910.1200(b)(5)(v). The labeling below appli sional products. classified and labeled according to the Globally Harmonized System (GHS). ams: None. /arning ents: ye irritation.

· Chemical characterization: Mixtures

· Components:

112-80-1 oleic acid, pure

Eye Irrit. 2B, H320

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: June 01, 2017

Revision: June 01, 2017

(Cont'd. of page 1)

<10%

Trade name: Tap Magic PROTAP Liquid

373-49-9 (Z)-hexadec-9-enoic acid

Flam. Liq. 4, H227; Eye Irrit. 2B, H320

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

[•] Description of first aid measures

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

• After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Most important symptoms and effects, both acute and delayed:
- Causes eye irritation.

Causes mild skin irritation.

Gastric or intestinal disorders when ingested.

· Indication of any immediate medical attention and special treatment needed:

No relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: Water stream.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: Cool endangered containers with water fog.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

Ensure adequate ventilation.

Particular danger of slipping on leaked/spilled product.

(Cont'd. on page 3)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: June 01, 2017

Revision: June 01, 2017

Trade name: Tap Magic PROTAP Liquid

(Cont'd. of page 2)

• Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Keep out of reach of children.

· Information about protection against explosions and fires: No special measures required.

[•] Conditions for safe storage, including any incompatibilities

· Storage

• Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Store away from eviditing age

Store away from oxidizing agents.

• **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Engineering controls: Provide adequate ventilation.

· Breathing equipment:

Not required under normal conditions of use.

(Cont'd. on page 4)

Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: June 01, 2017

Revision: June 01, 2017

Trade name: Tap Magic PROTAP Liquid	
Use suitable respiratory protective device when high concentrations are present. • Protection of hands:	(Cont'd. of page 3)
Protective gloves	
The glove material has to be impermeable and resistant to the product/ the substance/ the · Eye protection:	preparation.
Safety glasses	
Follow OSHA or EU guidelines concerning the use of protective eyewear. • Body protection: Not required under normal conditions of use. Protection may be required for spills. • Limitation and supervision of exposure into the environment	

No relevant information available.

Physical and chemical prop		
Information on basic physical	and chemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Pleasant	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	190 °C (374 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	>260 °C (>500 °F) (Estimation)	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Not determined.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	0.89	
Vapor density:	Not determined.	

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: June 01, 2017

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Trade name: Tap Magic PROTAP Liquid

		(Cont'd. of page
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Partly miscible.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic at 40 °C (104 °F):	39 mm²/s	
• Other information	No relevant information available.	

10 Stability and reactivity

· Reactivity: No relevant information available.

- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with strong alkali.

Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid Excessive heat.

· Incompatible materials Oxidizing agents

Hazardous decomposition products

Under fire conditions only: Carbon monoxide and carbon dioxide Hydrocarbons

11 Toxicological information

- [·] Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin:

Causes mild skin irritation.

Based on available data, the classification criteria are not met.

- · On the eye: Irritating effect.
- · Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

(Cont'd. on page 6)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

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OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion. Inhalation.

Eve contact.

Skin contact.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

[•] Additional ecological information

· General notes:

Due to available data on eliminability/decomposition and bioaccumulation potential, a prolonged damage of the environment is unlikely.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

[•] Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· **vPvB:** Not applicable.

· Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

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acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

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Not regulated.
Not regulated.
Not regulated.
Not regulated.
No
Not applicable.

15 Regulatory information	
---------------------------	--

 Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

(Cont'd. on page 8)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

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Revision: June 01, 2017

Trade name: Tap Magic PROTAP Liquid

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• Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories

• EPA (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL):

All ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision June 01, 2017 / -

· Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxique vPvB: very Persistent and very Bioaccumulative NIOSH: l'Institut national de recherche sur la sécurité et la santé au travail / National Institute for Occupational Safety (États-Unis) OSHA: Occupational Safety & Health Administration Flam. Lig. 4: Flammable liquids - Category 4 Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com



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Thurmalox 70C

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SECTION 1. IDENTIFICATION

Product identifier used on th	ne l	abel	
	:	Thurmalox 70C	
Product Code(s)	:	70C	
Recommended use of the ch	nen	nical and restrictions on use	
	:	Stainless Steel High Temperatu Use pattern: Professional Use C Recommended restrictions: Nor	Dnly
Chemical family	:	Mixture.	
Name, address, and telep of the supplier:	ho	ne number	Name, address, and telephone number of the manufacturer:
Dampney Company, Inc.			Refer to supplier
85 Paris Street Everett, Massachusetts, U.S.A 02149 Email: sales@dampney.com	۹.	(617) 220 2005	
Supplier's Telephone #	•	(617) 389-2805	
24 Hr. Emergency Tel #	:	Chemtrec 1-800-424-9300 (With (Outside U.S.).	nin Continental U.S.); Chemtrec 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Black liquid. Solvent odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Flammable Liquids - Category 2 Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects Specific Target Organ Toxicity, Repeated Exposure - Category 2 (CNS) Skin Irritation - Category 2 Carcinogen - Category 2 Reproductive Toxicity - Category 2

Label elements

Hazard pictogram(s)



DANGER!



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Hazard statement(s)

Highly flammable liquid and vapor. May cause respiratory irritation. May cause drowsiness and dizziness. May cause damage to organs through prolonged or repeated exposure. Causes skin irritation. Suspected of causing cancer. Suspected of damaging the unborn child.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapours or spray mist. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection.

If exposed or concerned: Get medical attention/advice. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell. In case of fire: Use alcohol-resistant foam, carbon dioxide or dry chemical to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

No OSHA defined hazard classes.

Other hazards which do not result in classification: May be sensitive to static discharge. Burning produces obnoxious and toxic fumes. Direct eye contact may cause slight or mild, transient irritation. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
tert-Butyl acetate	t-butyl acetate	540-88-5	30.0 - 40.0
p-Chlorobenzotrifluoride	Para-chlorobenzenetrifluoride	98-56-6	20.0 - 30.0
Xylenes	Dimethylbenzene Methyltoluene Xylol	1330-20-7	5.0 - 10.0
Toluene	Methylbenzene Phenylmethane	108-88-3	3.0 - 7.0
n-Butyl alcohol	n-Butanol 1-Hydroxybutane	71-36-3	1.0 - 5.0



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Ethylbenzene	Ethylbenzol Phenylethane	100-41-4	1.0 - 5.0
Iron manganese oxide ((Fe,Mn)2O3)	Manganese compounds	75864-23-2	1.0 - 5.0
Acetone	2-Propanone Methyl ketone	67-64-1	1.0 - 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion	:	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT
		induce vomiting. Material is an aspiration hazard. Guard against aspiration into lungs
		by having the individual turn on their left side. If vomiting occurs spontaneously, keep
		victim's head lowered (forward) to reduce the risk of aspiration.
Inhalation	:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
		breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
Skin contact	:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse
		skin with water/shower.
Eye contact	:	In case of eye contact, remove contact lens and rinse immediately with plenty of water,
		also under the eyelids, for at least 15 minutes. Get medical attention if irritation
		develops and persists.
Most important symptoms a	and	effects, both acute and delayed
	:	May cause respiratory irritation. Symptoms may include upper respiratory irritation,
		coughing and breathing difficulties. May cause drowsiness and dizziness. Symptoms
		may include pain, headache, nausea, vomiting, dizziness, drowsiness and other
		central nervous system effects. Causes skin irritation. Symptoms may include
		redness, itching and swelling. Direct eye contact may cause slight or mild, transient
		irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and
		diarrhea. Suspected of causing cancer.
Indication of any immediate	e me	dical attention and special treatment needed

: Treat symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

: Do not use water jet, as this may spread burning material.

Special hazards arising from the substance or mixture / Conditions of flammability

: Highly flammable liquid and vapor.Keep away from heat and flame. This product will accumulate static charge by flow, splashing or agitation. Vapors may travel considerable distance to a source of ignition and flash back. Vapours are heavier than air and collect in confined and low-lying areas. Product may float, and be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquids - Category 2

Hazardous combustion products

: Carbon oxides ; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.



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Special fire-fighting procedures

: Move containers from fire area if safe to do so. Use water spray to cool unopened containers. Avoid spreading burning liquid with water spray used for cooling purposes. Do not allow run-off from fire fighting to enter drains or water courses. Prevent fire extinguishing water from contaminating surface water or the ground water system. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

•	
	: Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapour or mist. Restrict access to area until completion of clean-up. Remove all sources of ignition. All persons dealing with the clean-up should wear the appropriate personal protective equipment. For personal protection see section 8.
Environmental precautions	: Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. For large spills, dike the area to prevent spreading.
Methods and material for co	ntainment and cleaning up
	: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Bond and ground transfer containers and equipment to avoid static accumulation. Contaminated absorbent material may pose the same hazards as the spilled product. Pick up and transfer to properly labeled containers. Contact the proper local authorities.
Special spill response proce	dures
	In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887.
	EPA/CERCLA Reportable quantity (RQ): Xylene (100 lbs / 45.4 kg) Ethylbenzene (1000 lbs / 454 kg) Toluene (1000 lbs / 454 kg) Acetone and tert-butyl acetate (5000 lbs / 2270 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat and flame. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Bond and ground transfer containers and equipment. Use explosion-proof electrical and ventilating equipment. Use non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Avoid breathing vapour or mist. Do not ingest. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials. Encourage good housekeeping and personal hygiene.
Conditions for safe storage		Store in well-ventilated place. Keep cool. Store locked up. Keep container tightly closed. Store away from incompatibles and out of direct sunlight. Take measures to prevent the build up of electrostatic charge. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
Incompatible materials	:	Strong oxidizers, acids and bases.



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STEL

N/Av

N/Av

N/Av

300 ppm (Ceiling)

N/Av

N/Av

N/Av

N/Av

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: OSHA PEL ACGIH TLV **Chemical Name** PEL TWA STEL tert-Butyl acetate 200 ppm N/Av 200 ppm ; 950 mg/m³ p-Chlorobenzotrifluoride N/Av N/Av N/Av 150 ppm 100 ppm (435 **Xylenes** 100 ppm mg/m³) Toluene 20 ppm N/Av 200 ppm 100 ppm (300 n-Butyl alcohol 20 ppm N/Av mg/m³) 20 ppm Ethylbenzene N/Av 100 ppm (435 mg/m³) Iron manganese oxide N/Av N/Av N/Av ((Fe,Mn)2O3)

250 ppm

Exposure controls

Acetone

Ventilation and engineering measures

Vontination and originooring		
	:	Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.
Respiratory protection	:	If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
Skin protection	:	Wear protective gloves. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye / face protection	:	Chemical splash goggles are recommended.
Other protective equipment	:	Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.
General hygiene consideration	on	5
	:	Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

500 ppm

1000 ppm (2400

mg/m³)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Black liquid.
Odour	:	Solvent odor.
Odour threshold	:	N/Av
рН	:	N/Av
Melting/Freezing point	:	N/Av
Initial boiling point and bo	iling	range



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Flash point	-20 - 42.77°C (-4 - 109°F)	
Flashpoint (Method)	: Closed cup	
Evaporation rate (BuAe = 1)	: 0.887 times slower than n-Butyl acetate	
Flammability (solid, gas)	: N/Ap	
Lower flammable limit (% by	ol.)	
	: N/Av	
Upper flammable limit (% by	ol.)	
	N/Av	
Oxidizing properties	: None known.	
Explosive properties	: Not explosive	
Vapour pressure	: N/Av	
Vapour density	: >1	
Relative density / Specific gr	vity	
	: 1.12832	
Solubility in water	: N/Ap	
Other solubility(ies)	: N/Av	
Partition coefficient: n-octan	I/water or Coefficient of water/oil distribution	
	: N/Av	
Auto-ignition temperature	N/Av	
Decomposition temperature	: N/Av	
Viscosity	: 300 cSt at 40°C	
Volatiles (% by weight)	: 71.8%	
Volatile organic Compounds	VOC's)	
	: 3.46lbs/gal	
Absolute pressure of contain	ir i i i i i i i i i i i i i i i i i i	
	: N/Ap	
Flame projection length	: N/Av	
Other physical/chemical com	nents	
	: None reported by the manufacturer.	
SECTION 10. STABILITY	ND DEACTIVITY	
Reactivity	Not normally reactive.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous read	Ions Hazardous polymerization does not occur. May be sensitive to static discharge.	
Conditions to avoid	: Keep away from heat, sparks and flame. Take precautionary measures against static	
	discharge. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.	i
Incompatible materials	Strong oxidizers, acids and bases.	
Hazardous decomposition p	-	
	: See Section 5 (Fire Fighting Measures).	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation: YESRoutes of entry skin & eye: YES

Routes of entry Ingestion : YES



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Routes of exposure skin absorption

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

C	May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath. Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness.
Sign and symptoms ingestic	DN
	 Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes symptoms similar to those listed for inhalation.
Sign and symptoms skin	 This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Skin Irritation - Category 2 Causes skin irritation. Symptoms may include mild redness and swelling.
Sign and symptoms eyes	: Direct eye contact may cause slight or mild, transient irritation.
Potential Chronic Health Eff	
	: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
Mutagenicity	: Not expected to be mutagenic in humans.
Carcinogenicity	 This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Carcinogenicity - Category 2 Suspected of causing cancer. Contains Ethylbenzene. Ethylbenzene is classifed as carcinogenic by IARC (Group 2B) and ACGIH (Category A3).
Reproductive effects & Tera	togenicity
	 This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive Toxicity - Category 2 Suspected of damaging the unborn child.
Sensitization to material	: Not expected to be a skin or respiratory sensitizer.
Specific target organ effects	: Eyes, skin, respiratory system, digestive system, central nervous system.
	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
	Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) May cause respiratory irritation.
	Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects May cause drowsiness and dizziness.
	Specific Target Organ Toxicity, Repeated Exposure - Category 2 May cause damage to organs through prolonged or repeated exposure. Contains Toluene. Toluene may cause damage to the brain and nervous system through prolonged or repeated exposure, if inhaled.
Medical conditions aggrava	ted by overexposure
	: Pre-existing skin, eye, respiratory and central nervous system disorders.
Synergistic materials	: None reported by the manufacturer.
Toxicological data	There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. See below for individual ingredient acute toxicity data.



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	LC50(4hr)			
Chemical name	<u>inh, rat</u>	(Oral, rat)	<u>(Rabbit, dermal)</u>	
tert-Butyl acetate	>2230 mg/m ³	4100 mg/kg	>2000 mg/kg	
p-Chlorobenzotrifluoride	33 mg/L 4 h	13 g/kg	>2000 mg/kg	
Xylenes	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg	
Toluene	7585 ppm (28.1 mg/L) (vapour)	5580 mg/kg	12 125 mg/kg	
n-Butyl alcohol	8000 ppm (24.3 mg/L) (vapour)	790 - 4360 mg/kg	3402 mg/kg	
Ethylbenzene	4000 ppm (17.4 mg/L) (vapour)	3500 mg/kg	15 380 mg/kg	
Iron manganese oxide ((Fe,Mn)2O3)	N/Av	N/Av	N/Av	
Acetone	30 000 ppm (71 mg/L) (vapour)	5800 mg/kg	> 15 800 mg/kg	

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Contains material that may be harmful in the environment. Should not be released into the environment. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

Ingredients		Toxicity to Fish			
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor	
tert-Butyl acetate	540-88-5	240 mg/L (Rainbow trout)	N/Av	N/Av	
p-Chlorobenzotrifluoride	98-56-6	3 mg/L (Danio rerio)	N/Av	None.	
Xylenes	1330-20-7	8.2 mg/L (Rainbow trout)	N/Av	None.	
Toluene	108-88-3	5.4 mg/L (pink salmon)	1.4 - 4.0 mg/L	None.	
n-Butyl alcohol	71-36-3	1376 mg/L (Fathead minnow)	N/Av	None.	
Ethylbenzene	100-41-4	4.2 mg/L (Rainbow trout)	1.13 mg/L/30 days	None.	
Iron manganese oxide ((Fe,Mn)2O3)	75864-23-2	N/Av	N/Av	None.	
Acetone	67-64-1	6210 mg/L (Fathead minnow)	N/Av	None.	



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Ingredients	CAS No	o Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
tert-Butyl acetate	540-88-5	340 mg/L (Daphnia magna)	N/Av	None.		
p-Chlorobenzotrifluoride	98-56-6	2mg/L (Daphnia magna)	N/Av	None.		
Xylenes	1330-20-7	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.		
Toluene	108-88-3	3.78 mg/L Ceriodaphnia (water flea)	0.53 - 1 mg/L	None.		
n-Butyl alcohol	71-36-3	1328 mg/L (Daphnia magna)	4.1 mg/L	None.		
Ethylbenzene	100-41-4	1.81 mg/L (Daphnia magna)	N/Av	None.		
Iron manganese oxide ((Fe,Mn)2O3)	75864-23-2	N/Av	N/Av	None.		
Acetone	67-64-1	15 800 mg/L (Daphnia magna)	1660 mg/L	None.		

Ingredients	CAS No	То	oxicity to Algae			
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
tert-Butyl acetate	540-88-5	16 mg/L (Green algae)	2.3 mg/L (Green algae)	None.		
p-Chlorobenzotrifluoride	98-56-6	>0.41mg/L (Green algae)	0.41 mg/L (Green algae)	None.		
Xylenes	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.		
Toluene	108-88-3	N/Av	10 mg/L/72hr (Green algae)	None.		
n-Butyl alcohol	71-36-3	225 mg/L/96hr (Green algae)	129 mg/L/96hr	None.		
Ethylbenzene	100-41-4	3.6 mg/L/96hr (Green algae)	3.4 mg/L/96hr	None.		
Iron manganese oxide ((Fe,Mn)2O3)	75864-23-2	N/Av	N/Av	None.		
Acetone	67-64-1	7000 mg/L/96hr (Green algae)	N/Av	None.		

Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential : No

: No data is available on the product itself.



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<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
tert-Butyl acetate (CAS 540-88-5)	1.38	7
p-Chlorobenzotrifluoride (CAS 98-56-6)	3.7 at 25 °C	121-202
Xylenes (CAS 1330-20-7)	3.12 - 3.2	0.6 - 15
Toluene (CAS 108-88-3)	2.65	90
n-Butyl alcohol (CAS 71-36-3)	0.88	0.64 species: freshwater fish
Ethylbenzene (CAS 100-41-4)	3.15	15 species: fish
Iron manganese oxide ((Fe,Mn)2O3) (CAS 75864-23-2)	N/Ap	N/Ap
Acetone (CAS 67-64-1)	0.24	0.69 species: fish

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal Methods of Disposal		Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Dispose in accordance with all applicable regulations.
RCRA	:	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION Transport Regulatory Packing hazard Label **UN Number** UN proper shipping name Information Group class(es) 49CFR/DOT UN1263 Paint 3 П 49CFR/DOT When transported as a limited quantity the maximum net capacity specified in 173.150(b)(2) of the subchapter 49CFR Additional for inner packagings may be increased to 5L (1.3 gallons) 172.102(C)(1)(149) special provision 149. information TDG UN1263 Paint 3 Ш TDG May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not Additional exceeding 30 kg (66 pounds) gross mass. information IMDG UN1263 PAINT 3 Ш IMDG May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not Additional exceeding 30 kg (66 pounds) gross mass. information



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ICAO/IATA	UN1263	Paint		3	II	
ICAO/IATA Additional information						
Special preca	autions for us	er : Keep away from heat, s	• •] .	

Environmental nazards : See ECOLOGICAL INFORMATION, Section 12. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
	CAS #	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
tert-Butyl acetate	540-88-5	Yes	5000 lb final RQ (listed under Butyl acetate); 2270 kg final RQ (listed under Butyl acetate)	N/Av	No	N/Ap	
p-Chlorobenzotrifluoride	98-56-6	Yes	N/Ap	N/Av	No	N/Ap	
Xylenes	1330-20-7	Yes	100 lb/ 45.4 kg	None.	Yes	1%	
Toluene	108-88-3	Yes	1000 lb/ 454 kg	None.	Yes	1%	
n-Butyl alcohol	71-36-3	Yes	5000 lb/ 2270 kg	None.	Yes	1%	
Ethylbenzene	100-41-4	Yes	1000 lb/ 454 kg	None.	Yes	0.1%	
Iron manganese oxide ((Fe,Mn)2O3)	75864-23-2	Yes	N/Ap	N/Av	No	N/Ap	
Acetone	67-64-1	Yes	5000 lb/ 2270 kg	None.	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Acute Health Hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:



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SAFETY DATA SHEET **California Proposition 65** State "Right to Know" Lists Ingredients CAS # Listod The second states ~ ... Т

		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
tert-Butyl acetate	540-88-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
p-Chlorobenzotrifluoride	98-56-6	No	N/Ap	No	No	No	No	No	No
Xylenes	1330-20-7	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	No	Developmental	Yes	Yes	Yes	Yes	Yes	Yes
n-Butyl alcohol	71-36-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes
Iron manganese oxide ((Fe,Mn)2O3)	75864-23-2	No	N/Ap	No	No	No	No	No	No
Acetone	67-64-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS Classification: See Section 2.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
tert-Butyl acetate	540-88-5	208-760-7	Present	Present	(2)-735; (2)-731	KE-04180	Present	HSR001094
p-Chlorobenzotrifluoride	98-56-6	202-681-1	Present	Present	(3)-53	KE-05928	Present	HSR005269 (dilution)
Xylenes	1330-20-7	215-535-7	Present	Present	(3)-60; (3)-3	KE-35427	Present	HSR000983
Toluene	108-88-3	203-625-9	Present	Present	(3)-2	KE-33936	Present	HSR001227
n-Butyl alcohol	71-36-3	200-751-6	Present	Present	(2)-3049	KE-03867	Present	HSR001096
Ethylbenzene	100-41-4	202-849-4	Present	Present	(3)-60; (3)-28	KE-13532	Present	HSR001151
Iron manganese oxide ((Fe,Mn)2O3)	75864-23-2	No data available.	No data available.	No data available.	No data available.	No data available.	No data available.	No data available.
Acetone	67-64-1	200-662-2	Present	Present	(2)-542	KE-29367	Present	HSR001070

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists AICS: Australian Inventory of Chemical Substances

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

CFR: Code of Federal Regulations

CSA: Canadian Standards Association

DOT: Department of Transportation

EC50: Effective Concentration 50%.

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Existing and New Chemical Substances



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	EPA: Environmental Protection Agency
	HMIS: Hazardous Materials Identification System
	HSDB: Hazardous Substances Data Bank
	IARC: International Agency for Research on Cancer
	IECSC: Inventory of Existing Chemical Substances
	IMDG: International Maritime Dangerous Goods
	Inh: Inhalation KECI: Korean Existing Chemicals Inventory
	KECL: Korean Existing Chemicals List
	LC: Lethal Concentration
	LD: Lethal Dose
	N/Ap: Not Applicable
	N/Av: Not Available
	NFPA: National Fire Protection Association
	NJ: New Jersey
	NIOSH: National Institute of Occupational Safety and Health
	NOEC: No observable effect concentration
	NTP: National Toxicology Program
	OECD: Organisation for Economic Co-operation and Development
	OSHA: Occupational Safety and Health Administration
	PA: Pennsylvania
	PEL: Permissible exposure limit
	PICCS: Philippine Inventory of Chemicals and Chemical Substances
	RCRA: Resource Conservation and Recovery Act
	RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act
	STEL: Short Term Exposure Limit
	TDG: Canadian Transportation of Dangerous Goods Act & Regulations
	TLV: Threshold Limit Values
	TPQ: Threshold Planning Quantity
	TSCA: Toxic Substance Control Act
	TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System
Deferences	
References :	Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
	OECD- The Global Portal to Information on Chemical Substances - eChemPortal,
	2015
	European Chemicals Agency, Classification Legislation, 2015
	Material Safety Data Sheet from manufacturer.
Preparation Date (mm/dd/yyyy)	
	02/15/2016
	02/15/2016

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

Dampney Company, Inc. 85 Paris Street Everett MA 02149 U.S.A Telephone: (617) 389-2805 Please direct all inquiries to Dampney Company.



Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com



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SAFETY DATA SHEET

DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc using information provided by / obtained from Dampney Company, Inc and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Dampney Company, Inc expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc and Dampney Company, Inc.

END OF DOCUMENT







Material Safety Data Sheet

1 - Chemical Product and Company Identification

Manufacturer	: Shanghai Wu Di Trading Co., Ltd. (WD-40 Company China)	Chemical Name: Organic Mixture
Address:	Level 4&5 Building 5, 1199 Jidi Rd,	Trade Name: WD-40 Bulk Liquid
Post code:	Minhang Shanghai 201107	Product Use: Lubricant, Penetrant, Drives Out
Telephone:	021-62964040	Moisture, Removes and Protects Surfaces
Fax:	021-52960140	From Corrosion
		MSDS Date Of Preparation: 01/06/12

2 – Hazards Identification

Emergency Overview:

DANGER! Harmful or fatal if swallowed. Flammable Liquid. If swallowed, may be aspirated and cause lung damage. May cause eye irritation. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.

Symptoms of Overexposure:

Inhalation: High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.

Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

Suspected Cancer Agent:

Yes No X

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent
Aliphatic Hydrocarbon	64742-47-8	<70
Petroleum Base Oil	64742-53-6	<25
	64742-56-9	
	64742-65-0	
Non-Hazardous Rust Inhibitors	Mixture	<10
Non-Hazardous Lubricants	Mixture	<10
Fragrance	Mixture	<1

See Section 8 for Exposure Limits

4 – First Aid Measures

Ingestion (Swallowed): Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

Eye Contact: Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention. **Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

5 – Fire Fighting Measures

Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water.

Unusual Fire and Explosion Hazards: Flammable liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

6 – Accidental Release Measures

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 – Handling and Storage

Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.

Storage: Store in a cool, well-ventilated area, away from incompatible materials. NFPA 30 Class II Liquid.

Chemical	Occupational Exposure Limits
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m3 (inhalable) TWA ACGIH TLV 5 mg/m3 TWA OSHA PEL
Non-Hazardous Rust Inhibitors	None Established
Non-Hazardous Lubricant	None Established
Fragrance	None Established

8 – Exposure Controls/Personal Protection

The Following Controls are Recommended for Normal Consumer Use of this Product

Engineering Controls: Use in a well-ventilated area.

Personal Protection:

Eye Protection: Avoid eye contact. Safety glasses or goggles recommended.

Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice. **Work/Hygiene Practices:** Wash with soap and water after handling.

9 – Physical and Chemical Properties

Boiling Point:	300°F (150°C)	Specific Gravity:	0.79 – 0.82 @ 25°C				
Solubility in Water:	Insoluble	pH:	Not Applicable				
Vapor Pressure:	0.27kPa @20°C (68°F)	Vapor Density:	Greater than 1				
Percent Volatile:	67%	VOC:	67%				
Coefficient of Water/Oil	Not Determined	Appearance/Odor	Light amber liquid/mild				
Distribution:			odor				
Flash Point:	113°F (45°C) Closed	Flammable Limits:	LEL: 0.6% UEL: 8.0%				
	cup	(Solvent Portion)					

10 - Stability and Reactivity

Stability: StableHazardous Polymerization: Will not occur.Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition.Incompatibilities: Strong oxidizing agents.Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11 – Toxicological Information

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard. None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

12 – Ecological Information

No data is currently available.

13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information_

DOT Surface Shipping Description: Excepted from Hazmat (49CFR 173.150 (F)) in non-bulk packagings. Bulk Packagings: NA1993, Combustible Liquid, n.o.s. (contains Petroleum Distillates), PG III IMDG Shipping Description: UN1268, Petroleum Distillates, n.o.s. 3, PG III

15 – Regulatory Information

China Regulations on the Control over Safety of Dangerous Chemicals: This product matches this regulation. All ingredients in this product has listed in IECSC(Inventory of Existing Chemical Substances in China 2010)

16 – Other Information:

HMIS Hazard Rating:

Health – 1 (slight hazard), Fire Hazard – 2 (moderate hazard), Reactivity – 0 (minimal hazard)

SIGNATURE:	Piter P. Ly	TITLE: Director of Global Consumer Relation	ons and Regulatory Affairs
REVISION DATE	January 2012	SUPERSEDES: _	June 2010







Safety Data Sheet

Manufacturer	: WD-40 Company	Chemical Name: Organic Mixture
Address:	9715 Businesspark Ave	
	San Diego, CA , USA	Trade Name: WD-40 Bulk Liquid
Post code:	92131	
Telephone:	+1-800-448-9340	Product Use: Lubricant, Penetrant, Drives Out
-	+1-858-251-5600	Moisture, Removes and Protects Surfaces
		From Corrosion
24 Hour Eme	rgency Phone Number:	
1-888-324-759	96 (PROSAR)	SDS Date Of Preparation: April 12, 2018
Chemical Spi	lls:	
1-800-424-9300 (Chemtrec)		
1-703-527-388	37 (International Calls)	

2 – Hazards Identification

GHS Classification: Flammable Liquid Category 4 Aspiration Toxicity Category 1



DANGER!

H227 Combustible liquid
H304 May be fatal if swallowed and enters airways.
Prevention
P210 Keep away from flames and hot surfaces. No smoking.
P280 Wear protective gloves.
Response
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use water fog, dry chemical, carbon dioxide or foam to extinguish.
Storage
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Disposal

P501 Dispose of contents and container in accordance with local and national regulations.

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	GHS Classification
Distillates (petroleum),	64742-47-8	50-70	Flammable Liquid Category 4
hydrotreated light			Aspiration Toxicity Category 1
Non-Hazardous Ingredients	Mixture	30-50	Not Hazardous

4 – First Aid Measures

Ingestion (Swallowed): Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately. 24 hours Hotline of Emergency Service for Chemical Incident in China: 0532-83889090.

Eye Contact: Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention. **Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

Most Important Symptoms (acute and delayed): May cause eye irritation. Skin contact may cause drying of the skin. Inhalation of mists may cause coughing, headache and dizziness. Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage.

Indication of Immediate Medical Attention or Special Treatment: Immediate medical attention is required for ingestion.

5 – Fire Fighting Measures

Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water.

Unusual Fire and Explosion Hazards: Combustible liquid. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces.

6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Eliminate all sources of ignition and ventilate area. Wear appropriate protective clothing (see Section 8).

Environmental Precautions: Report spills to authorities as required.

Methods and Materials for Containment/Cleanup: Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 – Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or mists. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.

Conditions for Safe Storage, including any incompatibilities: Store in a cool, well-ventilated area, away from incompatible materials. NFPA 30 Class IIIA Liquid.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits				
Distillates (petroleum), hydrotreated light	1200 mg/m3 TWA (manufacturer recommended)				
Non-Hazardous Ingredients	None Established				

The Following Controls are Recommended for Normal Consumer Use of this Product **Engineering Controls:** Use in a well-ventilated area.

Personal Protection:

Eye Protection: Avoid eye contact. Safety glasses or goggles recommended.

Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice. **Work/Hygiene Practices:** Wash with soap and water after handling.

Appearance:	Light amber liquid	Flammable Limits:	LEL: 0.6% UEL: 5.0%		
			(Distillates (petroleum),		
			hydrotreated light)		
Odor:	Mild petroleum odor	Vapor Pressure:	0.023 kPa @ 20°C		
Odor Threshold:	Not established	Vapor Density:	6.2		
pH:	Not established	Relative Density:	Not established		
Melting/Freezing Point:	Not established	Solubility(ies):	Insoluble in water		
Boiling Point/Range:	147-663°C	Partition Coefficient; n-	Not established		
		octanol/water:			
Flash Point:	175°F (79.5°C)	Auto ignition	239°C		
		Temperature:			
Evaporation Rate:	Not established	Decomposition	Not established		
		Temperature:			
Flammability (solid, gas):	Not applicable	Viscosity:	3.72 mm2/sec@40°C		
VOC:	65%	Pour Point:	-42°C		

9 – Physical and Chemical Properties

10 – Stability and Reactivity

Reactivity: Not reactive under normal conditions
Chemical Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11 – Toxicological Information

Symptoms of Overexposure:

Inhalation: High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.

Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity: None of the components is considered a reproductive hazard.

Numerical Measures of Toxicity:

Acute Toxicity Estimates: Oral > 5,000 mg/kg; Dermal >2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

12 – Ecological Information

Ecotoxicity: No specific aquatic toxicity data is currently available; however components of this product are not expected to be harmful to aquatic organisms. If applied to leaves may kill grasses and small plants by

interfering with respiration and transpiration. This product is not toxic to fish but may coat gill structures resulting in suffocation.

Persistence and Degradability: Components are expected to be biodegradable.

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients. **Mobility in Soil:** No data available.

Other Adverse Effects: None Known

13 - Disposal Considerations

It is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information

IMDG Shipping Description: Not Regulated ICAO Shipping Description: Not Regulated

NOTE: WD-40 Company does not test containers to assure that they can withstand the pressure change without leakage when transported by air. We do not recommend that our products be transported by air unless a specific review is conducted.

15 – Regulatory Information

China Regulations on the Control over Safety of Dangerous Chemicals: All ingredients in this product are listed in IECSC (Inventory of Existing Chemical Substances in China 2010).

16 – Other Information

Indication of changes; version 1.0

Training instructions: Not applicable

Further information: The information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to Reader: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Revision Date: April 12, 2018

Supersedes: December 27, 2017

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

WELD	×ON.	(
	WELD-OI	N®
SECTION I - PRO	DUCT AND COMPANY IDENT	IFI
PRODUCT NAME:	WELD-ON® 714™ Low VOC Ceme	ent
PRODUCT USE:	Low VOC Solvent Cement for CPVC	; Pla
SUPPLIER:		

WELD-ON® 714™ Low VOC Cement for CPVC Plastic Pipe

CATION for CPVC Plastic Pipe astic Pipe MANUFACTURER: **IPS** Corporation 17109 South Main Street, Gardena, CA 90248-3127 P.O. Box 379, Gardena, CA 90247-0379 Tel. 1-310-898-3300 EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International) Medical: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International) SECTION 2 - HAZARDS IDENTIFICATION GHS CLASSIFICATION: Health Environmental Physical Acute Toxicity: Acute Toxicity: Category 4 None Known Flammable Liquid Category 2 Skin Irritation: Category 3 Chronic Toxicity: None Known NO Skin Sensitization: Eye: Category 2 GHS LABEL: Signal Word: CLASS B, DIVISION 2 WHMIS CLASSIFICATION: ₫ Danger CLASS D. DIVISION 2B Hazard Statements Precautionary Statements H225: Highly flammable liquid and vapor P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking H319: Causes serious eye irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray H332: Harmful if inhaled P280: Wear protective gloves/protective clothing/eye protection/face protection H335: May cause respiratory irritation P337+P313: Get medical advice/attention H336: May cause drowsiness or dizziness P403+P233: Store in a well ventilated place. Keep container tightly closed H351: Suspected of causing cancer P501: Dispose of contents/container in accordance with local regulation EUH019: May form explosive peroxides EUH066: Repeated exposure may cause skin dryness or cracking SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS REACH CONCENTRATION Registration Number % by Weight Tetrahydrofuran (THF) 109-99-9 203-726-8 01-2119444314-46-0000 30 - 60 Methyl Ethyl Ketone (MEK) 78-93-3 201-159-0 01-2119457290-43-0000 5 - 25 108-94-1 203-631-1 01-2119453616-35-0000 Cyclohexanone 5 - 20 All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing * Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372). # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity. SECTION 4 - FIRST AID MEASURES Contact with eyes: Skin contact: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately. Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Inhalation: Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately. Likely Routes of Exposure: Inhalation, Eve and Skin Contact Acute symptoms and effects: Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages. Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness Chronic (long-term) effects: Category 2 Carcinogen SECTION 5 - FIREFIGHTING MEASURES Suitable Extinguishing Media: HMIS NFPA 0-Minimal Dry chemical powder, carbon dioxide gas, foam, Halon, water fog Unsuitable Extinguishing Media Health 1-Slight Water spray or stream 2 2 Flammability Exposure Hazards Inhalation and dermal contact 3 3 2-Moderate Combustion Products: Oxides of carbon, hydrogen chloride and smoke 0 0 3-Serious Reactivity в PPE 4-Severe Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks SECTION 6 - ACCIDENTAL RELEASE MEASURES Personal precautions Keep away from heat, sparks and open flame Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment. Prevent contact with skin or eyes (see section 8). Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. Environmental Precautions: Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel. Materials not to be used for clean up: Aluminum or plastic containers SECTION 7 - HANDLING AND STORAGE Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods. Do not eat, drink or smoke while handling. Store in ventilated room or shade below 33°C (90°F) and away from direct sunlight. Storage: Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Follow all precautionary information on container label, product bulletins and solvent cementing literature. SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION ACGIH CAL/OSHA 8-hr PEL ACGIH OSHA OSHA OSHA CAL/OSHA CAL/OSHA EXPOSURE LIMITS: Component 8-hr TLV 15-min STEL 8-hr PEI 15 min STEI PEL-Ceiling Ceiling 15-min STEL 50 ppm N/E 250 ppm Tetrahydrofuran (THF) 100 ppm 200 ppm N/E 200 ppm N/E Methyl Ethyl Ketone (MEK) N/E N/E 200 ppm N/E 300 ppm 200 ppm 300 ppm 200 ppm Cvclohexanone 20 ppm 50 ppm 50 ppm N/E N/E 25 ppm N/E N/E Engineering Controls: Use local exhaust as needed Monitorina: Maintain breathing zone airborne concentrations below exposure limits. Personal Protective Equipment (PPE): Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure. Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds. Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.



WELD-ON® 714[™] Low VOC Cement for CPVC Plastic Pipe

Date Revised: NOV 2018 Supersedes: OCT 2018

SECTION 9 - PHYS	ICAL AND CHEMIC	AL PROPERTIES			
Appearance:		ray, heavy syrupy liquid			
Odor:	Ketone			Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:	Not Applica	ble			
Melting/Freezing Poir		63.3°F) Based on first meltir	na component: THF	Boiling Range:	66°C (151°F) to 156°C (313°F)
Boiling Point:		 Based on first boiling complete 		Evaporation Rate:	> 1.0 (BUAC = 1)
Flash Point:) TCC based on THF		Flammability:	Category 2
Specific Gravity:	0.995 @23			Flammability Limits:	LEL: 1.1% based on Cyclohexanone
Solubility:		tion soluble in water. Resin p	ortion separates out		UEL: 11.8% based on THF
Partition Coefficient		Not Available	onion separates out.	Vapor Pressure:	129 mm Hg @ 20°C (68°F)based on THF
Auto-ignition Tempe		°F) based on THF		Vapor Density:	>2 (Air = 1)
Decomposition Temp				Other Data: Viscosity:	Heavy bodied
VOC Content:			Dula 1169 Test Method 216		Heavy bodied
SECTION 10 - STAI			Rule 1168, Test Method 316	A, VOC content is. ≤ 490 g/l.	
Stability:		Stable			
Hazardous decompo	sition products:		n forced to burn this product	gives off oxides of carbon, hy	drogen chloride, and smoke
Conditions to avoid:	sition products.		irks, open flame and other ign		arogen entende and entere.
				mon sources.	
Incompatible Materia			d bases, amines, ammonia		
SECTION 11 - TOX		RMATION			
Toxicity:	LD50		LC ₅₀		Target Organs
Tetrahydrofuran (THF)	Oral: 2842 I	ng/kg (rat)	Inhalation 3	hrs. 21,000 mg/m3 (rat)	STOT SE3
Methyl Ethyl Ketone (MEK) Oral: 2737 i	ng/kg (rat), Dermal: 6480 mg	/kg (rabbit) Inhalation 8	hrs. 23,500 mg/m ³ (rat)	STOT SE3
Cyclohexanone	Oral: 1535	mg/kg (rat), Dermal: 948 mg/	kg (rabbit) Inhalation 4	hrs. 8,000 PPM (rat)	Not Established
Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established
SECTION 12 - ECO	LOGICAL INFORMA	TION		÷	<u>.</u>
Ecotoxicity:	None Known				
Mobility:			(VOC's) to the air takes place	e, typically at a rate of < 490 g	/1.
Degradability:	Not readily biodegradable				
Bioaccumulation:	Minimal to none.				
SECTION 13 - WAS	TE DISPOSAL CON	SIDERATIONS			
Follow local and national re-					
SECTION 14 - TRAN	SPORT INFORMAT	ION			
Proper Shipping Name:	Adhesives				
Hazard Class:	3		EXCEPT	ION for Ground Shipping	
Secondary Risk:	None	DOT Limite		er packaging, 30 kg gross wei	ght per package.
Identification Number:	UN 1133				ay qualify under DOT as "ORM-D" .
Packing Group:	PG II				.,
Label Required:		nmable Liquid	т	DG INFORMATION	
Marine Pollutant:	NO	Innable Elquid	TDG CLASS:	FLAMMABLE	
Warne Fondant.	NO				
			SHIPPING NAME: UN NUMBER/PACKING	ADHESIVES GROUP: UN 1133, PG	
SECTION 15 - REG			CITITONIE LITTACIANO A		
		mable, Irritant, Carc. Cat. 2	Ingredient Listings: USA	TSCA, Europe EINECS, Cana	da DSL. Australia
Symbols:	F, Xi			orea ECL/TCCL, Japan MITI (
Risk Phrases:	R11: Highly flammable.				
RISK FIIFASES:	R11: Highly flammable. R36/37: Irritating to eyes an	d respiratory system.	R66: Repeated exposure ma R67: Vapors may cause dro	ay cause skin dryness or crackin wsiness and dizziness	la A
Safety Phrases:	S2: Keep out of the reach of		S25: Avoid contact with eye		
Salety Fillases:					
	S9: Keep container in a well				nty of water and seek medical advice.
	S16: Keep away from sourc	es or ignition - No smoking.	555: Take precautionary me	easures against static discharges	
SECTION 16 - OTH					
Specification Information				All Second Prove Prove	M 4
Department issuing of	data sheet:	IPS, Safety Health & Envir	ronmental Affairs		with the requirements of the European
E-mail address:		<ehsinfo@ipscorp.com></ehsinfo@ipscorp.com>		Directive on RoHS (Restrict	ion of Hazardous Substances).
		Voc. training in practicos	and procedures contained in p	roduct literature.	
Training necessary					
Training necessary: Reissue date / reasor	n for reissue	11/27/2018 / Updated GH			
		Voc. training in practices	and procedures contained in p	roduct literature.	

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WELD-ON® 714[™] Low VOC Cement for CPVC Plastic Pipe

Date Revised: OCT 2013 Supersedes: DEC 2011

SECTION I - PRODU	CT AND COMPANY I	DENTIFICATION							
PRODUCT NAME:	WELD-ON® 714™ Low VO	C Cement for CPVC Plasti	ic Pipe						
PRODUCT USE:	Low VOC Solvent Cement fe	or CPVC Plastic Pipe							
SUPPLIER:		MANUF	ACTURER:	IPS Corpora	tion				
				17109 South	n Main Street, G	Gardena, CA 90	0248-3127		
					9, Gardena, CA	90247-0379			
				Tel. 1-310-89					
	on: CHEMTEL Tel. 800.255-		ernational)	Medical: CH	IEMTEL Tel. 80	0.255-3924, +	1 813-248-05	85 (International)	
	RDS IDENTIFICATION								
GHS CLASSIFICATION:	- 10	E su das			г	Dh			
He Acute Toxicity:	alth Category 4	Acute Toxicity:	nmental None Know	n	Flammable Li		ysical	Category 2	
Skin Irritation:	Category 3	Chronic Toxicity:	None Know			quiu		Odlegoly 2	
Skin Sensitization:	NO	,							
Eye:	Category 2B								
GHS LABEL:	\wedge	.	Signal Wor	d:	WHMIS CLASS	IFICATION:	CLASS B, D	IVISION 2	
	OR OR		Danger						
	Hazard Statements				Precaution	ary Statements	,		
H225: Highly flammable liquid an			P210: Keep av	way from heat/so	arks/open flames		-		
H319: Causes serious eye irritati					ne/gas/mist/vapor		oononing		
H332: Harmful if inhaled			P280: Wear p	rotective gloves/p	protective clothing	/eye protection/fa	ace protection		
H335: May cause respiratory irrit				Get medical advic					
H336: May cause drowsiness or					ntilated place. Kee		-		
EUH019: May form explosive pe				e or contents/con	tainer in accordar	ice with local regu	uration		
SECTION 3 - COMP	OSITION/INFORMATI	CAS# EINECS #		ACH	· · · · · · · · · · · · · · · · · · ·	ONCENTRATIO	N		
			Pre-registrati	on Number		% by Weight	_		
Tetrahydrofuran (THF)		109-99-9 203-726-8		729-22-0000		30 - 60			
Methyl Ethyl Ketone (MEK) Cyclohexanone		78-93-3 201-159-0 108-94-1 203-631-1		728-24-0000		5 - 25 5 - 20			
	adhesive product are listed				ed by the LIS F		mot from that	listing	
	subject to the reporting requir								
	al is found on Proposition 65'							- /	
SECTION 4 - FIRST	AID MEASURES								
Contact with eyes:	Flush eyes immediately with	plenty of water for 15 minut	es and seek m	nedical advice	immediately.				
Skin contact:	Remove contaminated cloth								
Inhalation: Ingestion:	Remove to fresh air. If brea Rinse mouth with water. Give								
-	IGHTING MEASURES	-		Do not induot	vonnang. oot			·y.	
Suitable Extinguishing		, powder, carbon dioxide gas,	foam, Halon,	water fog.		HMIS	NFPA	0-Minimal	
Unsuitable Extinguishin			,		Health	2	2	1-Slight	
Exposure Hazards:		dermal contact			Flammability	3	3	2-Moderate	
Combustion Products:	Oxides of carb	oon, hydrogen chloride and	smoke		Reactivity PPE	0	0	3-Serious	
Protection for Firefighte	rs: Self-contained	I breathing apparatus or full-	face positive n	ressure airline		В		4-Severe	
	DENTAL RELEASE MI	• • • •							
Personal precautions:		EASURES om heat, sparks and open fla	ame.						
		ent ventilation, use explosio		st ventilation e	quipment or we	ar suitable res	piratory proted	ctive equipment.	
	Prevent conta	ct with skin or eyes (see sec	ction 8).						
Environmental Precautio		ict or liquids contaminated w					r course.		
Methods for Cleaning up Materials not to be used		sand or other inert absorber Aluminum or plastic contain		ansier to a clos	sadie steel ves	sei.			
	•	•							
	LING AND STORAGE of vapor, avoid contact wit								
	in ignition sources, use only		ng equipment a	and ensure ad	equate ventilat	ion/fume exhau	ust hoods.		
Do not eat, dri	nk or smoke while handling.		• • •						
	ated room or shade below 33			mante1 t	h la nha c t c st	ا المراجع			
	m ignition sources and incor autionary information on con					pounas, strong	oxidizers and	i isocyanates.	
	AUTIONS TO CONTR								
SECTION 0 - FREC	AUTIONS TO CONTR	OL EAFOSURE / FER			OSHA		CAL/OSHA		
EXPOSURE LIMITS:	Component	ACGIH TLV ACGIH STEL	OSHA PEL	OSHA STEL:		CAL/OSHA PEL	CAL/OSHA Ceiling	CAL/OSHA STEL	
	Tetrahydrofuran (THF)	50 ppm 100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm	
	Methyl Ethyl Ketone (MEK)	200 ppm 300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm	
Engineering Controls	Cyclohexanone	20 ppm 50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E	
Engineering Controls: Monitoring:	Use local exhaust as neede Maintain breathing zone airb		exposure limits						
Personal Protective Equi				-					
Eye Protection:	Avoid contact with eyes, we		ggles, face shi	eld, safety glas	sses (spectacle	s) with brow gu	uards and side	e shields,	
Chin Dectorities	etc. as may be appropriate f		I. a. a. la la	الالان الم	a al face from the	tanan a 1-			
Skin Protection:	Prevent contact with the skin Use of solvent-resistant glov		•				l adhesive an	nlication	
	practices and procedures ar			a provide ade	yuuu protectio		a auricoive ap		
Respiratory Protection:	Prevent inhalation of the sol	vents. Use in a well-ventilate	ed room. Ope						7
	exhaust ventilation to removie With normal use, the Exposi-								/
	with normal use, the Expos	ure Limit value Will Hot USUal	ny be reached.	withen minus a	ppioacrieu, us	e respiratory pr	orection edal	JINCHL.	



WELD-ON® 714[™] Low VOC Cement for CPVC Plastic Pipe

Date Revised: OCT 2013 Supersedes: DEC 2011

SECTION 9 - PHYS	ICAL AND	CHEMICAL	PROPER	TIES				
Appearance:		Orange or gra						
Odor:		Ketone				Odor Threshold:	0.88 ppm (Cyclohexanone)	
pH: Melting/Freezing Poi	nt	Not Applicable		on first molting	component: THF	Boiling Range:	66°C (151°F) to 156°C (313°F	5
Boiling Point:				boiling compor		Evaporation Rate:	> 1.0 (BUAC = 1)	/
Flash Point:		-20°C (-4°F) T				Flammability:	Category 2	
Specific Gravity:		0.995 @23°C				Flammability Limits:	LEL: 1.1% based on Cyclohe	xanone
Solubility: Partition Coefficient	n ootonolluus		n soluble in w Not Available		tion separates out.	Vanar Brassura	UEL: 11.8% based on THF	
Auto-ignition Tempe		321°C (610°F				Vapor Pressure: Vapor Density:	129 mm Hg @ 20°C (68°F)bas >2 (Air = 1)	
Decomposition Tem		Not Applicable				Other Data: Viscosity:	Heavy bodied	
VOC Content:			1	per SCAQMD R	ule 1168, Test Method 316	A,VOC content is: \leq 490 g/l.		
SECTION 10 - STA	BILITY AN	D REACTIV						
Stability:			Stable					
Hazardous decompo Conditions to avoid:		cts:			orced to burn, this product s, open flame and other ign	gives off oxides of carbon, hy	drogen chloride and smoke.	
Incompatible Materia					oases, amines, ammonia	mon sources.		
SECTION 11 - TOX								
Likely Routes of Exposur		Inhalation, Ey		ontact				
Acute symptoms and effe		Ly						
Inhalation:		exposure may r	esult in nause	a, dizziness, he	adache. Can cause drows	siness, irritation of eyes and na	asal passages.	
Eye Contact:						-	ation on contact with the liquid.	
Skin Contact:				•		y occur with prolonged contac	t.	
Ingestion: Chronic (long-term) effec		ausea, vomiting None known t		a mental sluggi	snness.			
Toxicity:		LD50	Unumans		LC50			
Tetrahydrofuran (THF)		Oral: 2842 mg	/kg (rat)		Inhalation 3	s hrs. 21,000 mg/m ³ (rat)		
Methyl Ethyl Ketone (ME	<)	Oral: 2737 mg	/kg (rat), Derr	mal: 6480 mg/kg	g (rabbit) Inhalation 8	hrs. 23,500 mg/m ³ (rat)		
Cyclohexanone		Oral: 1535 mg	/kg (rat), Derr	mal: 948 mg/kg	(rabbit) Inhalation 4	hrs. 8,000 PPM (rat)		
Reproductive Effects	Terato	ogenicity	Muta	genicity	Embryotoxicity	Sensitization to Product	Synergistic Products	
Not Established		stablished		tablished	Not Established	Not Established	Not Established	
SECTION 12 - ECO	LOGICAL	INFORMAT	ON					
Ecotoxicity:	None Knowr							
Mobility:			olatile organic	c compounds (V	OC's) to the air takes place	e, typically at a rate of <u><</u> 490 g	Л.	
Degradability: Bioaccumulation:	Biodegradat							
SECTION 13 - WAS				NS				
Follow local and national re								
SECTION 14 - TRAI	•							
Proper Shipping Name:		Adhesives						
Hazard Class:		3				FION for Ground Shipping		
Secondary Risk:		None				er packaging, 30 kg gross wei		
Identification Number: Packing Group:		UN 1133 PG II		Consumer Co	mmoaity: Depending on p	backaging, these quantities ma	ay qualify under DOT as "ORM-I	J.
Label Required:		Class 3 Flam	nable Liquid		Т	DG INFORMATION		
Marine Pollutant:		NO			TDG CLASS:	FLAMMABLE	LIQUID 3	
					SHIPPING NAME:	ADHESIVES		
	ATOPY				UN NUMBER/PACKING	GROUP: UN 1133, PG		
SECTION 15 - REG					Ingredient Listings: LISA		ada DSL Australia	
Precautionary Label Symbols:	mormation:	F, Xi				TSCA, Europe EINECS, Cana orea ECL/TCCL, Japan MITI (
Risk Phrases:	R11: Highly fl					ay cause skin dryness or crackir		
	• •	ing to eyes and r	espiratory syste	em.	R67: Vapors may cause dro			
Safety Phrases:		of the reach of cl			S25: Avoid contact with eye			
		tainer in a well-ve					nty of water and seek medical advi	ice.
		vay from sources	or ignition - No	smoking.	S33: Take precautionary me	easures against static discharges	S	
SECTION 16 - OTH		MATION						
Specification Inform Department issuing				lealth & Environ	mental Affairs		t with the requirements of the Eu	ıropean
E-mail address:			<ehsinfo@ip< td=""><td></td><td></td><td></td><td>ion of Hazardous Substances).</td><td></td></ehsinfo@ip<>				ion of Hazardous Substances).	
Training necessary: Reissue date / reaso	n for release			•	l procedures contained in p Standard Format	roduct literature.		
Intended Use of Pro		•		ent for CPVC P				
		l individuals at t				on data considered accurate	based on current state of	
						the results to be obtained fror		

WELD	×ON.	(
		WELD-ON®
SECTION I - PRO	DOUCT AND COMP	ANY IDENTIFI
PRODUCT NAME:	WELD-ON® 714™	Low VOC Cement
PRODUCT USE:	Low VOC Solvent C	ement for CPVC PI
SUPPLIER:		

WELD-ON® 714™ Low VOC Cement for CPVC Plastic Pipe

SECTION I - PRODU	JCT AND COMPANY	IDENTIFICA	TION							
PRODUCT NAME:	WELD-ON® 714™ Low VC	OC Cement for (CPVC Plastic	Pipe						
PRODUCT USE:	Low VOC Solvent Cement for	or CPVC Plastic	c Pipe							
SUPPLIER:			MANUFA	CTURER:	IPS Corporat	tion				
					17109 South	Main Street, G 9, Gardena, CA)248-3127		
					Tel. 1-310-89					
	tion: CHEMTEL Tel. 800.255-		48-0585 (Inter	mational)	Medical: CH	IEMTEL Tel. 80	0.255-3924, +	1 813-248-05	85 (Internationa	al)
	RDS IDENTIFICATION	N								
GHS CLASSIFICATION:			F			1				
Acute Toxicity:	ealth Category 4	Acute Toxicity:	Environ	None Known		Flammable Lic		vsical	Category 2	
Skin Irritation:	Category 3	Chronic Toxicity	y:	None Known			laia		outogory 2	
Skin Sensitization:	NO									
Eye:	Category 2									
GHS LABEL:		S	Signal Word: Danger			WHMIS CLASSI	FICATION:	CLASS B, D CLASS D, D		
	Hazard Statements					Precautiona	ary Statements	<u>i</u>		
H225: Highly flammable liquid an						arks/open flames/l		smoking		
H319: Causes serious eye irritati	on				-	e/gas/mist/vapors/				
H332: Harmful if inhaled H335: May cause respiratory irrit	ation				otective gloves/p et medical advic	rotective clothing/e	eye protection/rac	ce protection		
H336: May cause drowsiness or						tilated place. Keep	container tightly	closed		
H351: Suspected of causing can				P501: Dispose	of contents/cont	ainer in accordanc	e with local regul	ation		
EUH019: May form explosive pe										
	nay cause skin dryness or cracking POSITION/INFORMAT			s						
	CONTRACT ON MAT		EINECS	REA	АСН		ONCENTRATIO	N		
Totrobudgetuge (TUE)		100.00.0	202 702 2		on Number		% by Weight	-		
Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK)		109-99-9 78-93-3	203-726-8 201-159-0		314-46-0000 290-43-0000		30 - 60 5 - 25			
Cyclohexanone		108-94-1	203-631-1		616-35-0000		5 - 20			
	s adhesive product are listed	on the TSCA in	ventory of che	mical substar	nces maintaine	ed by the US El	PA, or are exe	mpt from that	listing.	
	subject to the reporting requir al is found on Proposition 65'								FR372).	
SECTION 4 - FIRST			(P				
Contact with eyes: Skin contact:	Flush eyes immediately with Remove contaminated cloth						evelone each	medical advi	ce	
	Remove contaminated cloth	ling and shoes.	wash skin the			er. If irritation d	evelops, seek	medical advi	ce.	
Inhalation:			d give artificial			difficult give or			-	
Inhalation: Ingestion:	Remove to fresh air. If brea	athing is stopped		I respiration.	f breathing is		kygen. Seek n	nedical advice		
Inhalation: Ingestion: Likely Routes of Exposur	Remove to fresh air. If brea Rinse mouth with water. Give	athing is stopped	es of water or r	I respiration.	f breathing is		kygen. Seek n	nedical advice		
Ingestion: Likely Routes of Exposur Acute symptoms and effe	Remove to fresh air. If brea Rinse mouth with water. Give: Inhalation, Eye	athing is stopped ve 1 or 2 glasses e and Skin Cont	es of water or r tact	I respiration. I nilk to dilute.	f breathing is Do not induce	vomiting. See	kygen. Seek n k medical advi	nedical advice ice immediate	ely.	
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WELD-ON® 714[™] Low VOC Cement for CPVC Plastic Pipe

Date Revised: NOV 2018 Supersedes: OCT 2018

		CHEMICA		TIES	_	_		
SECTION 9 - PHYS Appearance:	DICAL AND							
Appearance: Odor: pH:		Ketone Not Applicab	ay, heavy syrup Ie	py liquid			Odor Threshold:	0.88 ppm (Cyclohexanone)
Melting/Freezing Poi Boiling Point: Flash Point: Specific Gravity: Solubility: Partition Coefficient Auto-ignition Tempe Decomposition Tem VOC Content:	n-octanol/wa erature:	-108.5°C (-10 66°C (151°F -20°C (-4°F) 0.995 @23°C Solvent porti tter: 321°C (610° Not Applicab	63.3°F) Based of Based on first TCC based on C (73°F) on soluble in wa Not Available F) based on TH le	ater. Resin por IF	ent: THF	out.	Boiling Range: Evaporation Rate: Flammability: Flammability Limits: Vapor Pressure: Vapor Density: Other Data: Viscosity: A,VOC content is: ≤ 490 g/l.	$\begin{array}{l} 66^\circ C \ (151^\circ F) \ to \ 156^\circ C \ (313^\circ F) \\ > 1.0 \ (BUAC = 1) \\ Category \ 2 \\ LEL: \ 1.1\% \ based \ on \ Cyclohexanone \\ UEL: \ 11.8\% \ based \ on \ THF \\ 129 \ mm \ Hg \ @ \ 20^\circ C \ (68^\circ F) based \ on \ THF \\ >2 \ (Air = 1) \\ Heavy \ bodied \end{array}$
SECTION 10 - STA	BILITY AN				,		, 5	
Stability: Hazardous decompo Conditions to avoid: Incompatible Materia	sition produce als:	cts:	Stable None in norma Keep away fro Oxidizers, stro	al use. When for om heat, sparks ong acids and b	, open flame a	and other igni	gives off oxides of carbon, hy tion sources.	drogen chloride and smoke.
SECTION 11 - TOX		AL INFOR	MATION					
Toxicity: Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEH Cyclohexanone	()		g/kg (rat), Dern	nal: 6480 mg/kg nal: 948 mg/kg		Inhalation 8	hrs. 21,000 mg/m ³ (rat) hrs. 23,500 mg/m ³ (rat) hrs. 8,000 PPM (rat)	Target Organs STOT SE3 STOT SE3 Not Established
Reproductive Effects Not Established		genicity tablished		genicity tablished		otoxicity ablished	Sensitization to Product Not Established	Synergistic Products Not Established
SECTION 12 - ECC	LOGICAL	INFORMA [®]	TION					
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS	Not readily b Minimal to no	e, emission of iodegradable one.			OC's) to the a	ir takes place	e, typically at a rate of \leq 490 g	Л.
Follow local and national re				-				
SECTION 14 - TRA	NSPORT I	FORMATI	ON					
Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant:	1	Adhesives 3 None UN 1133 PG II Class 3 Flarr NO				to 5L per inne pending on p TI	TION for Ground Shipping er packaging, 30 kg gross wei aackaging, these quantities m DG INFORMATION FLAMMABLE ADHESIVES	ay qualify under DOT as "ORM-D" .
						R/PACKING C		11
SECTION 15 - REG								
Precautionary Label Symbols: Risk Phrases:	R11: Highly fl	Highly Flamn F, Xi ammable.			R66: Repeate	AICS, Ko d exposure ma	TSCA, Europe EINECS, Cana orea ECL/TCCL, Japan MITI (ay cause skin dryness or crackir wsiness and dizziness	ENCS)
Safety Phrases:	S9: Keep con		children ventilated place. s of ignition - No		S26: In case of			nty of water and seek medical advice. s.
SECTION 16 - OTH	IER INFOR	MATION						
Specification Inform Department issuing E-mail address:	ation:		IPS, Safety He <ehsinfo@ip< th=""><th>ealth & Environ scorp.com></th><th>mental Affairs</th><th></th><th></th><th>t with the requirements of the European ion of Hazardous Substances).</th></ehsinfo@ip<>	ealth & Environ scorp.com>	mental Affairs			t with the requirements of the European ion of Hazardous Substances).
Training necessary: Reissue date / reaso Intended Use of Pro	duct:		11/27/2018 / U Solvent Ceme	Updated GHS S ent for CPVC PI	tandard Form astic Pipe	at	roduct literature.	



WELD-ON® 717[™] Low VOC Cements for PVC Plastic Pipe

Date Revised: JUN 2018 Supersedes: NOV 2017

SECTION I - PROD		ID ENTREMANE AND							
BB 6 BUICT			o Din :						
PRODUCT NAME:		DC Cements for PVC Plastic	c Pipe						
PRODUCT USE:	Low VOC Solvent Cement f	•		100 0					
SUPPLIER:		MANUE		IPS Corporat 17109 South	Main Street, C	Gardena, CA 9	0248-3127		
				P.O. Box 379	, Gardena, CA				
				Tel. 1-310-89					
-	tion: CHEMTEL Tel. 800.255	· · · · · · · · · · · · · · · · · · ·	ernational)	Medical: CH	EMTEL Tel. 8	00.255-3924,	+1 813-248-0	0585 (Internationa	I)
	RDS IDENTIFICATIO	N							
GHS CLASSIFICATION:	alth	Enviro	nmental			Ph	ysical		
Acute Toxicity:	Category 4	Acute Toxicity:	None Known		Flammable Li		,	Category 2	
Skin Irritation:	Category 3	Chronic Toxicity:	None Known						
Skin Sensitization: Eye:	NO Category 2								
GHS LABEL:		Signal Word	•		WHMIS CLASS		CLASS B, D		
GHO EABEE.		Danger				in loan on.	CLASS D, D		
	\checkmark \checkmark \checkmark	3							
	Hazard Statements					ary Statements	_		
H225: Highly flammable liquid a			-		arks/open flames		No smoking		
H319: Causes serious eye irrita H332: Harmful if inhaled	tion				ne/gas/mist/vapo protective clothin		/face protection	n	
H335: May cause respiratory irr			P304+P340: IF	INHALED: Rem	nove victim to fre	sh air and keep	at rest in a pos	sition comfortable for	breathing
H336: May cause drowsiness of					ntilated place. Ke				
H351: Suspected of causing ca EUH019: May form explosive p			Poul: Dispose (or contents/con	tainer in accorda	nce with local re	guiau0h		
	POSITION/INFORMA	FION ON INGREDIEN	ITS						
		CAS# EINECS #	REA		C		N		
Tetrahydrofuran (THF)		109-99-9 203-726-8	Pre-registration 05-21162977			% by Weight 25 - 70			
Methyl Ethyl Ketone (MEK)		78-93-3 201-159-0	05-21162977	28-24-0000		5 - 36			
Cyclohexanone	"»	108-94-1 203-631-1				10 - 25			
	s adhesive product are listed subject to the reporting requi								
	al is found on Proposition 65								
SECTION 4 - FIRST	FAID MEASURES								
Contact with eyes:		h plenty of water for 15 minu					- 1		
Skin contact: Inhalation:		ning and shoes. Wash skin t athing is stopped, give artific							
Ingestion:	Rinse mouth with water. G	ive 1 or 2 glasses of water or							
Likely Routes of Exposur Acute symptoms and effe		ve and Skin Contact							
Acute symptoms and effe		result in nausea, dizziness, h	neadache. Can	cause drows	iness, irritatior	n of eyes and	nasal passad	ges.	
Eye Contact:		ole. Overexposure may resu						ntact with the liqui	d.
Skin Contact:		natural skin oils resulting in		Dermatitis ma	y occur with p	rolonged cont	act.		
Ingestion: Chronic (long-term) effect		g, diarrhea and mental slugg arcinogen	jisiiness.						
SECTION 5 - FIRE	FIGHTING MEASURE	S							
Suitable Extinguishing		powder, carbon dioxide gas,	, foam, Halon, v	water fog.		HMIS	NFPA	0-Minimal	
Unsuitable Extinguishin Exposure Hazards:		or stream. d dermal contact			Health	2	2	1-Slight	
Combustion Products:								2-Moderate	
		bon, hydrogen chloride and	smoke		Flammability Reactivity	3 0	3 0	2-Moderate 3-Serious	
Protoction for Fireficit					Reactivity PPE				
Protection for Firefighte	ers: Self-containe	d breathing apparatus or full		pressure airlin	Reactivity PPE	0		3-Serious	
	ers: Self-containe	d breathing apparatus or full	I-face positive p	pressure airlin	Reactivity PPE	0		3-Serious	
SECTION 6 - ACCI	ers: Self-containe DENTAL RELEASE M Keep away fr Provide suffic	d breathing apparatus or full IEASURES om heat, sparks and open fla cient ventilation, use explosic	I-face positive p ame. on-proof exhaus		Reactivity PPE e masks.	0 B	0	3-Serious 4-Severe	ıt.
SECTION 6 - ACCI Personal precautions:	Prs: Self-containe DENTAL RELEASE M Keep away fr Provide suffic Prevent conta	d breathing apparatus or full IEASURES om heat, sparks and open fla cient ventilation, use explosic act with skin or eyes (see sec	I-face positive p ame. on-proof exhaus ction 8).	st ventilation e	Reactivity PPE e masks.	0 B vear suitable r	0 espiratory pr	3-Serious 4-Severe	ıt.
SECTION 6 - ACCI	Prs: Self-containe DENTAL RELEASE N Keep away fr Provide suffic Prevent conta ons: Prevent prod	d breathing apparatus or full IEASURES om heat, sparks and open fla cient ventilation, use explosic	I-face positive p ame. on-proof exhaus ction 8). vith product fror	st ventilation e	Reactivity PPE e masks. equipment or w wers, drains, s	0 B vear suitable r oil or open wa	0 espiratory pr	3-Serious 4-Severe	it.
SECTION 6 - ACCI Personal precautions: Environmental Precautic Methods for Cleaning up Materials not to be used	Prs: Self-containe DENTAL RELEASE N Keep away fr Provide suffic Prevent conta prs: Prevent prod c: Clean up with for clean up:	d breathing apparatus or full IEASURES om heat, sparks and open fla- cient ventilation, use explosed act with skin or eyes (see sec- uct or liquids contaminated win a sand or other inert absorbe Aluminum or plastic contain	I-face positive p ame. on-proof exhaus ction 8). with product fror ent material. Tra	st ventilation e	Reactivity PPE e masks. equipment or w wers, drains, s	0 B vear suitable r oil or open wa	0 espiratory pr	3-Serious 4-Severe	it.
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SECTION 6 - ACCI Personal precautions: Environmental Precautic Methods for Cleaning up Materials not to be used SECTION 7 - HANU Handling: Avoid breathi Keep away fr Do not eat, di	Prs: Self-containe DENTAL RELEASE N Keep away fr Provide suffic Prevent conta prevent conta clean up with for clean up: DLING AND STORAG ng of vapor, avoid contact wi om ignition sources, use only ink or smoke while handling.	d breathing apparatus or full IEASURES om heat, sparks and open file cient ventilation, use explosic act with skin or eyes (see ser uct or liquids contaminated w a sand or other inert absorbe Aluminum or plastic contain E th eyes, skin and clothing. y electrically grounded handli	I-face positive p arme. on-proof exhaus ction 8). with product fror nt material. Tra hers ing equipment a	st ventilation e m entering se ansfer to a clo	Reactivity PPE e masks. equipment or w wers, drains, s osable steel ve	0 B wear suitable r oil or open wa sssel.	0 espiratory pr ater course.	3-Serious 4-Severe	ıt.
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SECTION 6 - ACCI Personal precautions: Environmental Precautic Methods for Cleaning up Materials not to be used SECTION 7 - HANE Handling: Avoid breathin Keep away fn Do not eat, di Storage: Store in venti Keep away fr Follow all pre SECTION 8 - PREC EXPOSURE LIMITS: Engineering Controls: Monitoring: Personal Protective Equ Eye Protection:	ers: Self-containe DENTAL RELEASE Keep away fr Provide suffic Prevent conta ors: Prevent prod provide suffic Prevent prod provide suffic Prevent prod c. Clean up with for clean up: DLING AND STORAG mg of vapor, avoid contact wi pom ignition sources, use only ink or smoke while handling, lated room or shade below 4 orm ignition sources and inco cautionary information on co CUTIONS TO CONTI Component Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK) Cyclohexanone Use local exhaust as needed Maintain breathing zone air ipment (PPE): Avoid contact with eyes, we etc. as may be appropriate	d breathing apparatus or full IEASURES om heat, sparks and open flating icint ventilation, use explosion act with skin or eyes (see second to sand or other inert absorbe Aluminum or plastic contain E th eyes, skin and clothing. velectrically grounded handling 4°C (110°F) and away from or mpatible materials: caustics, Intainer label, product bulleting ROL EXPOSURE / PE ACGIH TLV ACGIH STEL 50 ppm 100 ppm 200 ppm 300 ppm 20 ppm 50 ppm ad. thorne concentrations below that splash-proof chemical go for the exposure.	I-face positive p ame. on-proof exhaus ction 8). with product fror ent material. Tra- ners direct sunlight. . armonia, inorgons and solvent of ERSONAL P 05HA PEL 200 ppm 200 ppm 50 ppm son ppm	st ventilation e m entering se ansfer to a clo and ensure ac ganic acids, c cementing lite PROTECTI N/E N/E N/E N/E N/E	Reactivity PPE e masks. equipment or v wers, drains, s soable steel ve dequate ventila theorinated con- rrature. ON OSHA PEL-Ceiling N/E N/E N/E Sses (spectact	0 B wear suitable r oil or open wassel. ation/fume exh npounds, stron CAL/OSHA PEL 200 ppm 200 ppm 25 ppm	0 espiratory pr ater course. naust hoods. ng oxidizers a CAL/OSHA Ceiling N/E N/E N/E	3-Serious 4-Severe	νt.
SECTION 6 - ACCI Personal precautions: Environmental Precautic Methods for Cleaning up Materials not to be used SECTION 7 - HAND Handling: Avoid breath Keep away fm Do not eat, di Storage: Store in venti Keep away fm Follow all pre SECTION 8 - PREC EXPOSURE LIMITS: Engineering Controls: Monitoring: Personal Protective Equ	ers: Self-containe DENTAL RELEASE M Keep away fr Provide suffic Prevent conta or: Clean up with for clean up: DIING AND STORAG ing of vapor, avoid contact wi om ignition sources, use only ink or smoke while handling, ink or smoke while handling, lated room or shade below 4- tom ignition sources and inco cautionary information on co Component Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK) Cyclohexanone Use local exhaust as needed Maintain breathing zone air ipment (PPE): Avoid contact with eyes, we etc. as may be appropriate Prevent contact with the ski	d breathing apparatus or full IEASURES om heat, sparks and open fla cient ventilation, use explosic act with skin or eyes (see ser uct or liquids contaminated w a sand or other inert absorbe Aluminum or plastic contain E th eyes, skin and clothing. y electrically grounded handli 4°C (110°F) and away from or mpatible materials: caustics, ntainer label, product bulletin ROL EXPOSURE / PE <u>ACGIH TLV</u> <u>ACGIH STEL</u> 50 ppm 100 ppm 200 ppm 300 ppm 20 ppm 50 ppm ad. borne concentrations below ear splash-proof chemical go	I-face positive p ame. on-proof exhaus ction 8). with product fror ent material. Tra- ners ing equipment a direct sunlight. , ammonia, inorg ns and solvent a ERSONAL P 200 ppm 200 ppm 50 ppm exposure limits ggles, face shie d rubber gloves	st ventilation of mentering ser ansfer to a clo and ensure ac ganic acids, c cementing lite PROTECTI OSHA STEL N/E N/E N/E N/E s. eld, safety gla should be us	Reactivity PPE e masks. equipment or v wers, drains, s soable steel ve dequate ventila thlorinated com rature. ON PEL-Ceiling N/E N/E N/E Ssees (spectacl ed for frequen	0 B wear suitable r oil or open wassel. ation/fume ext ation/fume ext ation/fume ext pounds, stron CAL/OSHA PEL 200 ppm 200 ppm 25 ppm	0 espiratory pr ater course. naust hoods. ng oxidizers : CAL/OSHA Ceiling N/E N/E N/E N/E N/E	3-Serious 4-Severe	νt.
SECTION 6 - ACCI Personal precautions: Environmental Precautic Methods for Cleaning up Materials not to be used SECTION 7 - HANU Handling: Avoid breathi Keep away fr Do not eat, di Storage: Store in venti Keep away fr Follow all pre SECTION 8 - PREC EXPOSURE LIMITS: Engineering Controls: Monitoring: Personal Protective Equ Eye Protection: Skin Protection:	ers: Self-containe DENTAL RELEASE M Keep away fr Provide suffic Prevent conta or: Clean up with for clean up: DLING AND STORAG ing of vapor, avoid contact wi om ignition sources, use only lated room or shade below 4 om ignition sources and inco cautionary information on co CAUTIONS TO CONTI Component Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK) Cyclohexanone Use local exhaust as needed Maintain breathing zone air ipment (PPE): Avoid contact with eyes, we etc. as may be appropriate Prevent contact with the ski Use of solvent-resistant glo practices and procedures a	d breathing apparatus or full IEASURES om heat, sparks and open flati- cient ventilation, use explosic act with skin or eyes (see sec- uct or liquids contaminated with a sand or other inert absorbe Aluminum or plastic contain E th eyes, skin and clothing. 4°C (110°F) and away from of mpatible materials: caustics, ntainer label, product bulletin ROL EXPOSURE / PE ACGIH TLV ACGIH STEL 50 ppm 100 ppm 200 ppm 300 ppm 200 ppm 50 ppm d. borne concentrations below ear splash-proof chemical go for the exposure. in as much as possible. Buty ves or solvent-resistant barri re used for making structural	I-face positive p ame. on-proof exhaus ction 8). with product fror ent material. Tra- ters direct sunlight. ammonia, inorg ns and solvent of ERSONAL P OSHA PEL 200 ppm 200 ppm 50 ppm soppm exposure limits ggles, face shiet direc ream shoul l bonds.	st ventilation of mentering se ansfer to a clo and ensure ad ganic acids, c cementing lite PROTECTI OSHA STEL N/E N/E N/E N/E should be us id provide ade	Reactivity PPE e masks. equipment or w wers, drains, s issable steel ve dequate ventila thorinated con- rature. ON OSHA PEL-Ceiling N/E N/E N/E Sses (spectacl ed for frequen equate protecti	0 B wear suitable r oil or open wa ssel. ation/fume ext ation/fume ext ation/fume ext ation/fume ext PEL 200 ppm 200 ppm 200 ppm 200 ppm 200 ppm 200 ppm	0 espiratory pr ater course. naust hoods. ng oxidizers a ceiling N/E N/E N/E N/E guards and a nal adhesive	3-Serious 4-Severe	Nt.
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749



WELD-ON® 717[™] Low VOC Cements for PVC Plastic Pipe

Date Revised: JUN 2018 Supersedes: NOV 2017

		AL PROPERTIES			
Appearance:		ır, heavy syrupy liquid			
Odor:	Ketone			Odor Threshold:	0.88 ppm (Cyclohexanone)
pH: Molting/Eroozing Boi	Not Applical			Poiling Panes	66%C (151%E) to 156%C (242%E)
Melting/Freezing Poi Boiling Point:		63.3°F) Based on first melting Based on first boiling compo		Boiling Range: Evaporation Rate:	66°C (151°F) to 156°C (313°F) > 1.0 (BUAC = 1)
Flash Point:		TCC based on THF		Flammability:	Category 2
Specific Gravity:	0.963 @23°			Flammability Limits:	LEL: 1.1% based on Cyclohexanone
Solubility:		ion soluble in water. Resin po	ortion separates out.	,,	UEL: 11.8% based on THF
Partition Coefficient		Not Available		Vapor Pressure:	129 mm Hg @ 20°C (68°F)based on THF
Auto-ignition Tempe		°F) based on THF		Vapor Density:	>2 (Air = 1)
Decomposition Tem				Other Data: Viscosity:	Heavy bodied
VOC Content:		ed as directed, per SCAQMD	Rule 1168, Test Method 310	6A,VOC content is: <pre>< 510 g/l</pre>	
	BILITY AND REACT				
Stability:		Stable			
Hazardous decompo	sition products:				hydrogen chloride and smoke.
Conditions to avoid:			ks, open flame and other igr	nition sources.	
Incompatible Materia		Oxidizers, strong acids and	i bases, amines, ammonia		
		RMATION			
Toxicity:	LD ₅₀		LC ₅₀	2	Target Organs
Tetrahydrofuran (THF)	Oral: 2842 r			hrs. 21,000 mg/m ³ (rat)	STOT SE3
Methyl Ethyl Ketone (MEł		ng/kg (rat), Dermal: 6480 mg/l		hrs. 23,500 mg/m ³ (rat)	STOT SE3
Cyclohexanone	Oral: 1535 r	ng/kg (rat), Dermal: 948 mg/kg	g (rabbit) Inhalation 4	hrs. 8,000 PPM (rat)	
Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established
SECTION 12 - ECO	LOGICAL INFORMA	TION			
Ecotoxicity:	None Known				
Mobility:		volatile organic compounds ((VOC's) to the air takes plac	e, typically at a rate of < 510) g/l.
Degradability:	Not readily biodegradable				
Bioaccumulation:	Minimal to none.				
	STE DISPOSAL CON				
	egulations. Consult disposa	l expert.			
SECTION 14 - TRA					
		ION			
Proper Shipping Name:	Adhesives	ION			
Hazard Class:	Adhesives 3			ION for Ground Shipping	
Hazard Class: Secondary Risk:	Adhesives 3 None	DOT Limited	Quantity: Up to 5L per inne	er packaging, 30 kg gross w	
Hazard Class: Secondary Risk: Identification Number:	Adhesives 3 None UN 1133	DOT Limited	Quantity: Up to 5L per inne	er packaging, 30 kg gross w	eight per package. nay qualify under DOT as "ORM-D" .
Hazard Class: Secondary Risk: Identification Number: Packing Group:	Adhesives 3 None UN 1133 PG II	DOT Limited Consumer C	Quantity: Up to 5L per inno ommodity: Depending on p	er packaging, 30 kg gross w ackaging, these quantities r	
Hazard Class: Secondary Risk: Identification Number:	Adhesives 3 None UN 1133 PG II	DOT Limited	Quantity: Up to 5L per inno ommodity: Depending on p	er packaging, 30 kg gross w	nay qualify under DOT as "ORM-D" .
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	Adhesives 3 None UN 1133 PG II Class 3 Flar	DOT Limited Consumer C	Quantity: Up to 5L per inno ommodity: Depending on p	er packaging, 30 kg gross we backaging, these quantities r DG INFORMATION	nay qualify under DOT as "ORM-D" .
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	Adhesives 3 None UN 1133 PG II Class 3 Flar	DOT Limited Consumer C	Quantity: Up to 5L per inno ommodity: Depending on p	er packaging, 30 kg gross w ackaging, these quantities r DG INFORMATION FLAMMABLE ADHESIVES	nay qualify under DOT as "ORM-D" .
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant:	Adhesives 3 None UN 1133 PG II Class 3 Flar	DOT Limited Consumer Consumer	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME:	er packaging, 30 kg gross w ackaging, these quantities r DG INFORMATION FLAMMABLE ADHESIVES	nay qualify under DOT as "ORM-D" .
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM. Information: Highly Flam	DOT Limited Consumer Consumer	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING O Ingredient Listings: USA	er packaging, 30 kg gross waackaging, these quantities r DG INFORMATION FLAMMABLE ADHESIVES SROUP: UN 1133, PC TSCA, Europe EINECS, Car	nay qualify under DOT as "ORM-D" . E LIQUID 3 6 II nada DSL, Australia
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols:	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM, Information: Highly Flam F, Xi	DOT Limited Consumer Consumer	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING O Ingredient Listings: USA	er packaging, 30 kg gross w ackaging, these quantities r DG INFORMATION FLAMMABLE ADHESIVES GROUP: UN 1133, PC	nay qualify under DOT as "ORM-D" . E LIQUID 3 6 II nada DSL, Australia
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM. Information: Highly Flam F, Xi R11: Highly flammable.	DOT Limited Consumer Consumer	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, Ko	er packaging, 30 kg gross w ackaging, these quantities r og INFORMATION FLAMMABLE ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car orea ECL/TCCL, Japan MITI	nay qualify under DOT as "ORM-D" . E LIQUID 3 B II nada DSL, Australia I (ENCS)
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols:	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM, Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation.	DOT Limited Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Construction Con	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, Ki R66: Repeat	er packaging, 30 kg gross wi ackaging, these quantities r OG INFORMATION FLAMMABLE ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car brea ECL/TCCL, Japan MITI ed exposure may cause skin d	nay qualify under DOT as "ORM-D" .
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols: Risk Phrases:	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM, Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes and	DOT Limited Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Construction Con	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, Ki R66: Repeat R67: Vapors	er packaging, 30 kg gross w ackaging, these quantities r og INFORMATION FLAMMABLE ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car brea ECL/TCCL, Japan MITI ed exposure may cause skin d may cause drowsiness and di	nay qualify under DOT as "ORM-D" .
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols:	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM. Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes an S9: Keep container in a well	DOT Limited Consumer C nmable Liquid ATION mable, Irritant, Carc. Cat. 2 d respiratory system. -ventilated place.	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING O Ingredient Listings: USA AICS, Ko R66: Repeat R67: Vapors S26: In case of contact with	er packaging, 30 kg gross w ackaging, these quantities r DG INFORMATION FLAMMABLE ADHESIVES SROUP: UN 1133, PC TSCA, Europe EINECS, Car brea ECL/TCCL, Japan MITI ed exposure may cause skin d may cause drowsiness and di eyes, rinse immediately with p	The set of
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols: Risk Phrases:	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM. formation: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes an S9: Keep container in a well S16: Keep away from source	DOT Limited Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumation Constraints of the constraints	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, Ko R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me	er packaging, 30 kg gross wi ackaging, these quantities r of INFORMATION FLAMMABLE ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car Drea ECL/TCCL, Japan MITI ed exposure may cause skin d may cause drowsiness and di eyes, rinse immediately with p pasures against static discharg	ay qualify under DOT as "ORM-D" . E LIQUID 3 A II Hada DSL, Australia I (ENCS) Iryness or cracking zziness Ilenty of water and seek medical advice. Jes.
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols: Risk Phrases: Safety Phrases:	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM. Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes an S9: Keep container in a well S16: Keep away from sourc S25: Avoid contact with eye	DOT Limited Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumation Constraints of the constraints	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, Ko R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me	er packaging, 30 kg gross w ackaging, these quantities r DG INFORMATION FLAMMABLE ADHESIVES SROUP: UN 1133, PC TSCA, Europe EINECS, Car brea ECL/TCCL, Japan MITI ed exposure may cause skin d may cause drowsiness and di eyes, rinse immediately with p	ay qualify under DOT as "ORM-D" . E LIQUID 3 A II Hada DSL, Australia I (ENCS) Iryness or cracking zziness Ilenty of water and seek medical advice. Jes.
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols: Risk Phrases: Safety Phrases: SECTION 16 - OTH	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM. Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes ann S9: Keep container in a well S16: Keep away from sourc: S25: Avoid contact with eye: IER INFORMATION	DOT Limited Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumation Constraints of the constraints	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, Ko R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me	er packaging, 30 kg gross wi ackaging, these quantities r of INFORMATION FLAMMABLE ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car Drea ECL/TCCL, Japan MITI ed exposure may cause skin d may cause drowsiness and di eyes, rinse immediately with p pasures against static discharg	ay qualify under DOT as "ORM-D" . E LIQUID 3 A II Hada DSL, Australia I (ENCS) Iryness or cracking zziness Ilenty of water and seek medical advice. Jes.
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols: Risk Phrases: Safety Phrases: SECTION 16 - OTH Specification Inform	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM, Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes an S9: Keep container in a well S16: Keep away from source S25: Avoid contact with eyee IER INFORMATION ation:	DOT Limited Consumer Cr Consumer Cr DOT Limited Consumer Cr Arran Consumer Cr Arran Consumer Cr Market Consumer Consumer Constant Market Const	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, K R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary m S46: If swallowed, seek mee	er packaging, 30 kg gross w ackaging, these quantities r og INFORMATION FLAMMABLE ADHESIVES GROUP: UN 1133, PC TSCA, Europe EINECS, Car orea ECL/TCCL, Japan MITI ed exposure may cause skin d may cause drowsiness and di eyes, rinse immediately with p assures against static discharg dical advise immediately and s	nay qualify under DOT as "ORM-D" . E LIQUID 3 B II nada DSL, Australia I (ENCS) Iryness or cracking zziness blenty of water and seek medical advice. yes. how this container or label.
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols: Risk Phrases: Safety Phrases: SECTION 16 - OTH	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM, Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes an S9: Keep container in a well S16: Keep away from source S25: Avoid contact with eyee IER INFORMATION ation:	DOT Limited Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumation Constraints of the constraints	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING (Ingredient Listings: USA AICS, K R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary m S46: If swallowed, seek mee	er packaging, 30 kg gross w ackaging, these quantities r or incomposition of the second additional of the second of the second additional of the second of the second second of the second of the second of the second additional of the second of the second of the second additional of the second of the second of the second additional of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	ay qualify under DOT as "ORM-D" . E LIQUID 3 A II Hada DSL, Australia I (ENCS) Iryness or cracking zziness Ilenty of water and seek medical advice. Jes.
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Symbols: Risk Phrases: Safety Phrases: Safety Phrases: SecTION 16 - OTH Specification Inform Department Issuing E-mail address:	Adhesives 3 None UN 1133 PG II Class 3 Flar NO SULATORY INFORM, Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes an S9: Keep container in a well S16: Keep away from source S25: Avoid contact with eyee IER INFORMATION ation:	DOT Limited Consumer Cr DOT Limited Consumer Cr ATION mable, Irritant, Carc. Cat. 2 d respiratory system. -ventilated place. es of ignition - No smoking. s. IPS, Safety Health & Enviro <ehsinfo@ipscorp.com></ehsinfo@ipscorp.com>	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING O Ingredient Listings: USA AICS, Ko R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek mee	er packaging, 30 kg gross w ackaging, these quantities r DG INFORMATION FLAMMABLE ADHESIVES SROUP: UN 1133, PC TSCA, Europe EINECS, Car brea ECL/TCCL, Japan MITI ad exposure may cause skin d may cause drowsiness and di eyes, rinse immediately with p pasures against static discharg dical advise immediately and s All ingredients are complia Directive on RoHS (Restrict	The second secon
Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - RECO Precautionary Label Symbols: Risk Phrases: Safety Phrases: Safety Phrases: SecTION 16 - OTH Specification Inform Department Issuing	Adhesives 3 None UN 11133 PG II Class 3 Flar NO SULATORY INFORM. Information: Highly Flam F, Xi R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes an S9: Keep container in a well S16: Keep away from sourc S25: Avoid contact with eyes IER INFORMATION ation: data sheet:	DOT Limited Consumer Cr DOT Limited Consumer Cr ATION mable, Irritant, Carc. Cat. 2 d respiratory system. -ventilated place. es of ignition - No smoking. s. IPS, Safety Health & Enviro <ehsinfo@ipscorp.com></ehsinfo@ipscorp.com>	Quantity: Up to 5L per inno ommodity: Depending on p TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING O Ingredient Listings: USA AICS, Ko R66: Repeat R67: Vapors S26: In case of contact with S33: Take precautionary me S46: If swallowed, seek men	er packaging, 30 kg gross w ackaging, these quantities r DG INFORMATION FLAMMABLE ADHESIVES SROUP: UN 1133, PC TSCA, Europe EINECS, Car brea ECL/TCCL, Japan MITI ad exposure may cause skin d may cause drowsiness and di eyes, rinse immediately with p pasures against static discharg dical advise immediately and s All ingredients are complia Directive on RoHS (Restrict	The second secon

	WE							Date Revised:	JUN 2018	
RODUCT NAME: V		LD-ON® 717	7™ Low \	/OC Ceme	nts for PV	C Plastic F	Pipe	Supersedes:		
	WELD-ON® 717™ Low VO			c Pipe						
SUPPLIER:	_ow VOC Solvent Cement f	or PVC Plastic F	•	ACTURER:	IPS Corpora	tion				
				IOTORER.	17109 South	Main Street, 0 , Gardena, CA				
					Tel. 1-310-8		\$ 90247 - 0378	9		
MERGENCY: Transportation	n: CHEMTEL Tel. 800.255	-3924, +1 813-2	48-0585 (Inte	ernational)	Medical: CH	IEMTEL Tel. 8	0.255-3924,	+1 813-248-0	0585 (Internationa	I)
SECTION 2 - HAZAR	IDENTIFICATIO	N								
HS CLASSIFICATION: Heal	Ith		Enviror	nmenta			Dh	iysical		
	Category 4	Acute Toxicity:	Enviror	None Known		Flammable Li		lysical	Category 2	
	Category 3	Chronic Toxicit	y:	None Known						
	NO Category 2									
GHS LABEL:			ignal Word:				FICATION	CLASS B, D		
			Danger			WHMIS CLASS	IFICATION:	CLASS B, D CLASS D, D		
	Hazard Statements					Precautiona	ry Statements	<u>s</u>		
1225: Highly flammable liquid and	l vapor					arks/open flames	/hot surfaces -	-		
l319: Causes serious eye irritatio l332: Harmful if inhaled	n					ne/gas/mist/vapo protective c l othin		/face protoction	n	
1332: Harmful if Innaled 1335: May cause respiratory irritat	tion								n sition comfortable for	breathing
1336: May cause drowsiness or di	izziness			P403+P233: S	tore in a well ver	ntilated place. Ke	ep container tig	htly closed		Ű
l351: Suspected of causing cance UH019: May form explosive pero				P501: Dispose	of contents/con	tainer in accorda	nce with local re	egulation		
SECTION 3 - COMPO			GREDIEN	TS						
			EINECS #	RE	ACH	c		ON		
etrahydrofuran (THF)		109-99-9	203-726-8	Pre-registration 05-21162977			% by Weight 25 - 70	-		
lethyl Ethyl Ketone (MEK)		78-93-3	201-159-0	05-21162977	728-24-0000		5 - 36			
Cyclohexanone		108-94-1	203-631-1	05-21162977			10 - 25			
Il of the constituents of this a Indicates this chemical is su										
indicates that this chemical									,-	
SECTION 4 - FIRST Contact with eyes: F	AID MEASURES Flush eyes immediately with									
	Remove contaminated cloth Remove to fresh air. If brea			noroaginy ma						
Ingestion: F ikely Routes of Exposure: Acute symptoms and effect	Rinse mouth with water. Gi Inhalation, Ey ts:	ve 1 or 2 glasse ve and Skin Con	s of water or tact	milk to dilute.	If breathing i Do not induc	s difficult, give æ vomiting. Se	oxygen. See eek medical a	k medical adv dvice immedi	vice. ately.	
Ingestion: F ikely Routes of Exposure: Acute symptoms and effect Inhalation: S	Rinse mouth with water. Gi Inhalation, Ey ts: Severe overexposure may r	ve 1 or 2 glasse ve and Skin Con result in nausea,	s of water or tact dizziness, h	milk to dilute. eadache. Car	If breathing i Do not induc n cause drows	s difficult, give e vomiting. Se siness, irritatior	oxygen. See eek medical a n of eyes and	k medical adv dvice immedi nasal passag	vice. ately. jes.	d.
Ingestion: F .ikely Routes of Exposure: .cute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L	Rinse mouth with water. Gi Inhalation, Ey ts: Severe overexposure may r /apors slightly uncomfortab Liquid contact may remove	ve 1 or 2 glasse /e and Skin Con result in nausea, ole. Overexposu natural skin oils	s of water or tact dizziness, h ire may resul resulting in s	milk to dilute. eadache. Car It in severe eye skin irritation.	If breathing is Do not induc n cause drows e injury with co	s difficult, give e vomiting. Se siness, irritatior orneal or conju	oxygen. See eek medical a n of eyes and nctival inflam	k medical adv dvice immedi nasal passag mation on col	vice. ately. jes.	d.
Ingestion: F ikely Routes of Exposure: keute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: N	Rinse mouth with water. Gi Inhalation, Ey severe overexposure may r /apors slightly uncomfortab .iquid contact may remove i May cause nausea, vomiting	ve 1 or 2 glasse ve and Skin Con result in nausea, ble. Overexposu natural skin oils g, diarrhea and	s of water or tact dizziness, h ire may resul resulting in s	milk to dilute. eadache. Car It in severe eye skin irritation.	If breathing is Do not induc n cause drows e injury with co	s difficult, give e vomiting. Se siness, irritatior orneal or conju	oxygen. See eek medical a n of eyes and nctival inflam	k medical adv dvice immedi nasal passag mation on col	vice. ately. jes.	d.
Ingestion: F .ikely Routes of Exposure: koute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: M chronic (long-term) effects:	Rinse mouth with water. Gi Inhalation, Ey Severe overexposure may r Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomiting : Category 2 C	ve 1 or 2 glasse re and Skin Con result in nausea, ole. Overexposu natural skin oils g, diarrhea and i arcinogen	s of water or tact dizziness, h ire may resul resulting in s	milk to dilute. eadache. Car It in severe eye skin irritation.	If breathing is Do not induc n cause drows e injury with co	s difficult, give e vomiting. Se siness, irritatior orneal or conju	oxygen. See eek medical a n of eyes and nctival inflam	k medical adv dvice immedi nasal passag mation on col	vice. ately. jes.	d.
Ingestion: F ikely Routes of Exposure: keute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: N	Rinse mouth with water. Gi Inhalation, Ey Severe overexposure may r 'Agors slightly uncomfortab Liquid contact may remove May cause nausea, vomiting : Category 2 Ca GHTING MEASURE	ve 1 or 2 glasse re and Skin Con result in nausea, ole. Overexposu natural skin oils g, diarrhea and i arcinogen	s of water or tact dizziness, h re may resul resulting in s mental slugg	milk to dilute. eadache. Car It in severe eye skin irritation. ishness.	If breathing i Do not induc n cause drows e injury with co Dermatitis ma	s difficult, give e vomiting. Se siness, irritatior orneal or conju	oxygen. See eek medical a n of eyes and nctival inflam	k medical adv dvice immedi nasal passag mation on col	vice. ately. jes.	d.
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Ingestion: F i.kely Routes of Exposure: koute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: M Chronic (Iong-term) effects: SECTION 5 - FIREFIN Suitable Extinguishing Me	Rinse mouth with water. Gi Inhalation, Ey ts: Severe overexposure may r Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomiting : Category 2 Ci GHTING MEASURES edia: Dry chemical Media: Water spray o Inhalation and	ve 1 or 2 glasse ve and Skin Com- result in nausea, ole. Overexposu natural skin oils g, diarrhea and arcinogen S powder, carbon	s of water or tact dizziness, h ire may resul resulting in s mental slugg dioxide gas,	milk to dilute. eadache. Car It in severe eyr skin irritation. ishness. foam, Halon,	If breathing i Do not induc n cause drows e injury with co Dermatitis ma	s difficult, give e vomiting. Se siness, irritatior orneal or conju ay occur with p Health Flammability Reactivity	oxygen. See eek medical ad notival inflam rolonged cont HMIS 2 3 0	k medical adv dvice immedi nasal passag mation on cor lact.	vice. ately. ntact with the liqui O-Minimal 1-Slight 2-Moderate 3-Serious	d.
Ingestion: F Ikely Routes of Exposure: kute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: M Chronic (long-term) effects: SECTION 5 - FIREFI Suitable Extinguishing Unsuitable Extinguishing Exposure Hazards:	Rinse mouth with water. Gi Inhalation, Ey ts: Severe overexposure may r /apors slightly uncomfortab .iquid contact may remove i Way cause nausea, vomiting : Category 2 Ca GHTING MEASURE: dedia: Dry chemical Media: Water spray of Inhalation and Oxides of carl	ve 1 or 2 glasse ve and Skin Con result in nausea, ole. Overexposu natural skin oils g, diarrhea and arcinogen S powder, carbon or stream. d dermal contact	s of water or tact dizziness, h re may result resulting in s mental slugg dioxide gas, t hloride and s	milk to dilute. eadache. Car ti in severe eyr skin irritation. ishness. foam, Halon, smoke	If breathing i Do not induc n cause drows e injury with co Dermatitis ma water fog.	s difficult, give e vomiting. So siness, irritation orneal or conju ay occur with p Health Flammability Reactivity PPE	oxygen. See eek medical ad n of eyes and nctival inflam rolonged cont HMIS 2 3	k medical adv dvice immedi nasal passag mation on con tact. NFPA 2 3	vice. ately. jes. ntact with the liqui 0-Minimal 1-Slight 2-Moderate	d.
Ingestion: F ikely Routes of Exposure: koute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: M Chronic (long-term) effects: SECTION 5 - FIREFI Suitable Extinguishing Me Unsuitable Extinguishing Me Unsuitable Extinguishing Me Unsuitable Extinguishing Me Second State	Rinse mouth with water. Gi Inhalation, Ey ts: Severe overexposure may r Vapors slightly uncomfortab iquid contact may remove May cause nausea, vomiting : Category 2 C GHTING MEASURE GHTING MEASURE GHTING MEASURE GHTING MEASURE GHTING MEASURE States of carl s: Self-contained ENTAL RELEASE M	ve 1 or 2 glasse ve and Skin Con result in nausea, ole. Overexposu natural skin oils g, diarrhea and i arcinogen S powder, carbon or stream. d dermal contact bon, hydrogen c d breathing appa IEASURES	s of water or tact dizziness, h re may resul resulting in s mental slugg dioxide gas, t hloride and s aratus or full-	milk to dilute. eadache. Car It in severe ey skin irritation. ishness. foam, Halon, smoke face positive j	If breathing i Do not induc n cause drows e injury with co Dermatitis ma water fog.	s difficult, give e vomiting. So siness, irritation orneal or conju ay occur with p Health Flammability Reactivity PPE	oxygen. See eek medical ad notival inflam rolonged cont HMIS 2 3 0	k medical adv dvice immedi nasal passag mation on con tact. NFPA 2 3	vice. ately. ntact with the liqui O-Minimal 1-Slight 2-Moderate 3-Serious	d.
Ingestion: F ikely Routes of Exposure: koute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: M Chronic (long-term) effects: SECTION 5 - FIREFIN Suitable Extinguishing Me Unsuitable Extinguishing Me Unsuitable Extinguishing Me Unsuitable Extinguishing Me Combustion Products: Protection for Firefighters	Rinse mouth with water. Gi Inhalation, Ey ts: Severe overexposure may r Vapors slightly uncomfortab iquid contact may remove May cause nausea, vomiting : Category 2 G GHTING MEASURE adia: Dry chemical Media: Water spray of Inhalation and Oxides of carl s: Self-container ENTAL RELEASE M Keep away fro	ve 1 or 2 glasse ve and Skin Con result in nausea, ole. Overexposu natural skin oils g, diarrhea and i arcinogen S powder, carbon or stream. d dermal contact bon, hydrogen c d breathing appr IEASURES om heat, sparks	s of water or tact dizziness, h re may result resulting in s mental slugg dioxide gas, t hloride and s aratus or full- and open fla	milk to dilute. eadache. Car It in severe ey skin irritation. ishness. foam, Halon, smoke -face positive p me.	If breathing i Do not induc n cause drows e injury with co Dermatitis ma water fog.	s difficult, give e vomiting. Se siness, irritation porneal or conju ay occur with p Health Flammability Reactivity PPE e masks.	oxygen. See eek medical ad not eyes and nctival inflam rolonged cont HMIS 2 3 0 B	k medical adv dvice immedi nasal passag mation on con tact. NFPA 2 3 0	vice. ately, ately, ntact with the liqui 0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe	
Ingestion: F ikely Routes of Exposure: koute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: M Chronic (long-term) effects: SECTION 5 - FIREFI Suitable Extinguishing Me Unsuitable Extinguishing Me Unsuitable Extinguishing Me Unsuitable Extinguishing Me Second State	Rinse mouth with water. Gi Inhalation, Ey ts: Severe overexposure may r /apors slightly uncomfortab .iquid contact may remove i May cause nausea, vomiting : Category 2 Category 2 Category 2 GHTING MEASURE: Gelta: Dry chemical Media: Water spray of Inhalation and Oxides of carl s: Self-contained ENTAL RELEASE M Keep away fro Provide suffic Prevent conta	ve 1 or 2 glasse ve and Skin Con- result in nausea, ole. Overexposu natural skin oils g, diarrhea and i arcinogen S powder, carbon or stream. d dermal contact bon, hydrogen c d breathing appr IEASURES om heat, sparks cient ventilation, act with skin or e	s of water or tact dizziness, h re may result resulting in s mental slugg dioxide gas, t hloride and s aratus or full- and open fila use explosio yes (see sec	milk to dilute. eadache. Car ti n severe eyr skin irritation. ishness. foam, Halon, smoke -face positive p ime. in-proof exhau tion 8).	If breathing i Do not induc n cause drows e injury with co Dermatitis ma water fog.	s difficult, give e vomiting. Se siness, irritation orneal or conju yy occur with p Health Flammability PPE e masks. equipment or v	oxygen. See eek medical ad notival inflam rolonged cont HMIS 2 3 0 B B vear suitable r	k medical adv dvice immedi nasal passag mation on con tact. NFPA 2 3 0 0	vice. ately. ntact with the liqui O-Minimal 1-Slight 2-Moderate 3-Serious	
Ingestion: F ikely Routes of Exposure: koute symptoms and effect Inhalation: S Eye Contact: V Skin Contact: L Ingestion: M Chronic (long-term) effects: SECTION 5 - FIREF SUitable Extinguishing Me Unsuitable Ex	Rinse mouth with water. Gi Inhalation, Ey ts: Severe overexposure may r Vapors slightly uncomfortab iquid contact may remove May cause nausea, vomiting : Category 2 C GHTING MEASURE GHTING MEASURE Media: Dry chemical Media: Dry chemical Media: Water spray of Inhalation and Oxides of carl s: Self-contained ENTAL RELEASE M Keep away fro Provide suffic Prevent conta s: Prevent produ	ve 1 or 2 glasse ve and Skin Con result in nausea, ole. Overexposu natural skin oils g, diarrhea and i arcinogen S powder, carbon or stream. d dermal contact bon, hydroigen co d breathing apper IEASURES on heat, sparks cient ventilation, act with skin or e uct or liquids cor	s of water or tact dizziness, h re may resul resulting in s mental slugg dioxide gas, dioxide gas, and open fla use explosio yes (see sec taminated w	milk to dilute. eadache. Car It in severe ey skin irritation. ishness. foam, Halon, smoke -face positive ime. on-proof exhau ition 8).	If breathing i Do not induc n cause drows e injury with co Dermatitis ma water fog. pressure airlin st ventilation o m entering se	s difficult, give e vomiting. Se siness, irritation porneal or conju ay occur with p Health Flammability Reactivity PPE ee masks, equipment or v wers, drains, s	oxygen. See eek medical ad notival inflam rolonged cont HMIS 2 3 0 B vear suitable r oil or open wa	k medical adv dvice immedi nasal passag mation on con tact. NFPA 2 3 0 0	vice. ately, ately, ntact with the liqui 0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe	
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WELD-ON® 717[™] Low VOC Cements for PVC Plastic Pipe

Date Revised: JUN 2018 Supersedes: NOV 2017

SECTION 9 - PHYS	SICAL AND C	HEMICAL PROPE	RTIES			
Appearance:		Gray or clear, heavy syrup	y liquid			
Odor:		letone			Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:		lot Applicable				
Melting/Freezing Pol		108.5°C (-163.3°F) Based			Boiling Range:	66°C (151°F) to 156°C (313°F)
Boiling Point:		6°C (151°F) Based on fin		onent: THF	Evaporation Rate:	> 1.0 (BUAC = 1)
Flash Point:		20°C (-4°F) TCC based o	n IHF		Flammability:	Category 2
Specific Gravity:		.963 @23°C (73°F)	water Desires	tion concretes and	Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 11.8% based on THF
Solubility: Partition Coefficient		olvent portion soluble in Not Availabl		ortion separates out.	Vapor Pressure:	129 mm Hg @ 20°C (68°F)based on THF
Auto-ignition Tempe		21°C (610°F) based on T			Vapor Density:	>2 (Air = 1)
Decomposition Tempe		lot Applicable			Other Data: Viscosity:	Heavy bodied
VOC Content:			ner SCAOMD F	Rule 1168, Test Method 316		
SECTION 10 - STA			por containe r		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Stable				
Stability:	naition nraduata		maluce When	forced to hurp, this product	given off oviden of earbon	hydrogon oblogide and emoke
Hazardous decompo Conditions to avoid:	•			s, open flame and other ign		hydrogen chloride and smoke.
					mon sources.	
Incompatible Materia				bases, amines, ammonia		
SECTION 11 - TO	NCOLOGICA					
Toxicity:		LD50		LC ₅₀		Target Organs
Tetrahydrofuran (THF)		Dral: 2842 mg/kg (rat)			hrs. 21,000 mg/m ³ (rat)	STOT SE3
Methyl Ethyl Ketone (MEI		Dral: 2737 mg/kg (rat), De			hrs. 23,500 mg/m ³ (rat)	STOT SE3
Cyclohexanone	C	Dral: 1535 mg/kg (rat), De	rmal: 948 mg/kg	(rabbit) Inhalation 4	hrs. 8,000 PPM (rat)	
Reproductive Effects	Teratoge	enicity Muta	agenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Estat	blished Not E	stablished	Not Established	Not Established	Not Established
SECTION 12 - ECO	DLOGICAL IN	FORMATION		•	·	
Ecotoxicity:	None Known					
Mobility:		emission of volatile organ	nic compounds (VOC's) to the air takes plac	e typically at a rate of < 51	0 g/l
Degradability:	Not readily biod		ile competities (- <u>3</u>
Bioaccumulation:	Minimal to none					
SECTION 13 - WAS			UNS			
Follow local and national r	-					
SECTION 14 - TRA Proper Shipping Name:						
Hazard Class:	. 4			EXCEPT	ON for Ground Shipping	
Secondary Risk:		lone	DOT Limited	Quantity: Up to 5L per inne		eight ner package
Identification Number:		JN 1133				may qualify under DOT as "ORM-D".
Packing Group:		PG II	oonsumer oo	billioung. Depending on p		
Label Required:		Class 3 Flammable Liquid		ТО	G INFORMATION	
Marine Pollutant:		10		TDG CLASS:	FLAMMABL	E LIQUID 3
				SHIPPING NAME:	ADHESIVES	
				UN NUMBER/PACKING G	ROUP: UN 1133, PO	G II
SECTION 15 - REC	GULATORY I	NFORMATION				
		lighly Flammable, Irritant,	Carc. Cat. 2	Ingredient Listings: USA	SCA, Europe EINECS, Ca	nada DSL, Australia
Symbols:		, Xi			rea ECL/TCCL, Japan MIT	
Risk Phrases:	R11: Highly flam					
	R20: Harmful by			R66: Repeate	ed exposure may cause skin o	dryness or cracking
	R36/37: Irritating	to eyes and respiratory sy	stem.		may cause drowsiness and d	
Safety Phrases:	S9: Keep contair	ner in a well-ventilated plac	e.	S26: In case of contact with	eves, rinse immediatelv with i	plenty of water and seek medical advice.
		from sources of ignition - N			asures against static dischar	
	S25: Avoid conta		5		ical advise immediately and s	
SECTION 16 - OTH	HER INFORM					
Specification Inform						
Department issuing	data sheet:	IPS, Safety	Health & Enviro	nmental Affairs	All ingredients are complia	ant with the requirements of the European
E-mail address:				innormal / mano		
		<ehsinfo@< th=""><th>ipscorp.com></th><th></th><th></th><th>ction of Hazardous Substances)</th></ehsinfo@<>	ipscorp.com>			ction of Hazardous Substances)
Training necessary:		0			Directive on RoHS (Restri	ction of Hazardous Substances).
Training necessary: Reissue date / reaso		Yes, training	, in practices an	d procedures contained in p standard Format	Directive on RoHS (Restri	ction of Hazardous Substances).

	WELD									
SECTION I - PRODU	JCT AND COMPAN									
PRODUCT NAME:	WELD-ON® P-70™ Low			/C Plastic Pip	e					
PRODUCT USE:	Low VOC Primer for PVC	and CPVC Plast	tic Pipe							
SUPPLIER:			MANUF	ACTURER:	IPS Corporat	ion				
						Main Street, G				
					Tel. 1-310-89	, Gardena, CA 8-3300	90247-037	9		
EMERGENCY: Transportat	ion: CHEMTEL Tel. 800.25	5-3924, +1 813-2	248-0585 (Inte	rnational)			0.255-3924,	+1 813-248-0	585 (Internationa	al)
SECTION 2 - HAZA				,			,			,
GHS CLASSIFICATION:		-								
	alth			nmental				nysical		
Acute Oral Toxicity: Skin Irritation:	Category 4 Category 3	Acute Toxicit Chronic Toxic	<i>,</i>	None Known None Known		Flammable Li	quia		Category 2	
Skin Sensitization:	NO	Childrife Toxic	Jity.							
Carcinogenity	Category 2									
Eye:	Category 2	_								
GHS LABEL:	$\Lambda \Lambda /$		Signal Word:			WHMIS CLASS	IFICATION:	CLASS B, D	IVISION 2	
			Danger					CLASS D, D	IVISION 2B	
		•				Descentions		-		
H225: Highly flammable liquid a	Hazard Statements			P210: Keep aw	av from heat/sp	Precautiona arks/open flames	ry Statement			
H319: Causes serious eye irritat						ne/gas/mist/vapo		· · · · · · · · · · · · · · · · · · ·		
H332: Harmful if inhaled						rotective clothing				
H335: May cause respiratory irri									sition comfortable f	or breath
H336: May cause drowsiness or H351: Suspected of causing car						ntilated place. Ke ainer in accorda				
EUH019: May form explosive pe										
SECTION 3 - COMF	OSITION/INFORMA		-	-						
		CAS	EINECS		ACH on Number	C	ONCENTRATIO			
Tetrahydrofuran (THF)		109-99-9	203-726-8		314-46-0000		45 - 59	-		
Methyl Ethyl Ketone (MEK)		78-93-3	201-159-0		290-43-0000		19 - 29			
Cyclohexanone Acetone		108-94-1 67-64-1	203-631-1 200-662-2		616-35-0000 330-49-0000		5 - 15 5 - 20			
All of the constituents of this	s adhesive product are liste					ed by the LIS F		xempt from th	at listing	
* Indicates this chemical is	subject to the reporting req									
# indicates that this chemic:				e Emergency F	Planning and C	Community Rig	ht-to-Know A	ct of 1986 (40		
	al is found on Proposition 6			e Emergency F	Planning and C	Community Rig	ht-to-Know A	ct of 1986 (40		
SECTION 4 - FIRST	AID MEASURES	5's List of chem	icals known to	e Emergency F the State of C	Planning and C alifornia to ca	Community Rig use cancer or r	ht-to-Know A	ct of 1986 (40		
SECTION 4 - FIRST Contact with eyes:	AID MEASURES	5's List of chemi	icals known to er for 15 minut	e Emergency F the State of C es and seek m	Planning and C alifornia to ca edical advice	Community Rig use cancer or r immediately.	ht-to-Know A reproductive	act of 1986 (40 toxicity.	0CFR372).	
SECTION 4 - FIRST Contact with eyes: Skin contact:	AID MEASURES Flush eyes immediately w Remove contaminated clo	5's List of chemi ith plenty of wate othing and shoes	icals known to er for 15 minut . Wash skin tl	e Emergency F the State of C es and seek m horoughly with	Planning and C alifornia to ca edical advice soap and wat	community Rig use cancer or r immediately. er. If irritation	ht-to-Know A reproductive develops, se	ct of 1986 (40 toxicity. ek medical ac	OCFR372).	
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 Date Revised:
 JAN 2019

 WELD-ON® P-70™ Low VOC Primer for PVC and CPVC Plastic Pipe
 Supersedes:
 DEC 2018

SECTION 9 - PHYS	ICAL AND						
Appearance: Odor:		Clear or purple Ethereal	e, thin liquid			Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:		Not Applicable	9			ouor miconola.	
Melting/Freezing Poir	nt:		3.3°F) Based on first melti			Boiling Range:	56°C (133°F) to 156°C (313°F)
Boiling Point:			Based on first boiling com	ponent: Aceton	e	Evaporation Rate:	> 1.0 (BUAC = 1)
Flash Point:			CC based on Acetone			Flammability:	Category 2
Specific Gravity: Solubility:		0.858 @23°C	n soluble in water.			Flammability Limits:	LEL: 1.1% based on Cyclohex UEL: 12.8% based on Acetone
Partition Coefficient r	n-octanol/wat		Not Available			Vapor Pressure:	190 mm Hg @ 20°C (68°F) Ace
Auto-ignition Temper) based on THF			Vapor Density:	>2.0 (Air = 1)
Decomposition Temp		Not Applicable	Э			Other Data: Viscosity:	Water-thin
VOC Content:		When applied	as directed, per SCAQME	Rule 1168, Te	st Method 316	A,VOC content is: <pre>< 550 g/l</pre>	
SECTION 10 - STAE	BILITY ANI	D REACTIV	ITY				
Stability:			Stable				
Hazardous decompos	sition product	ts:				t gives off oxides of carbon a	and smoke.
Conditions to avoid:			Keep away from heat, sp			nition sources.	
Incompatible Material			Oxidizers, strong acids a	nd bases, amine	es, ammonia		
SECTION 11 - TOXI	COLOGIC	AL INFORM					
Toxicity:			LD50			LC50	Target Organs
Tetrahydrofuran (THF)		Oral: 2842 mg				hrs. 21,000 mg/m ³ (rat)	STOT SE3
Methyl Ethyl Ketone (MEK))		y/kg (rat), Dermal: 6480 m			hrs. 23,500 mg/m ³ (rat)	STOT SE3
Cyclohexanone			g/kg (rat), Dermal: 948 mg/	kg (rabbit)		hrs. 8,000 PPM (rat) 0,100 mg/m ³ (rat)	0101.052
Acetone	1	Oral: 5800 mg	j/kg (rat)		Innaiation 5	0,100 mg/m (rat)	STOT SE3
Reproductive Effects		ogenicity	Mutagenicity		otoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Es	tablished	Not Established	Not Es	tablished	Not Established	Not Established
SECTION 12 - ECO	LOGICAL	INFORMATI	ION				
Ecotoxicity:	NI 17						
	None Known						
Mobility in Soil:			nent, this product can mov	e rapidly throug	h the soil.		
Mobility in Soil: Degradability:		to the environm	nent, this product can mov	e rapidly throug	h the soil.		
Mobility in Soil:	If released in	to the environm	nent, this product can mov	e rapidly throug	h the soil.		
Mobility in Soil: Degradability: Bioaccumulation:	If released in Not available Minimal to no	to the environm one.	· •	e rapidly throug	h the soil.		
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS	If released in Not available Minimal to no	to the environm one. SAL CONSI	DERATIONS	e rapidly throug	h the soil.		
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rea	If released in Not available Minimal to no TE DISPO gulations. Con	to the environme one. SAL CONSI Insult disposal ex	IDERATIONS opert.	e rapidly throug	h the soil.		
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national res SECTION 14 - TRAN	If released in Not available Minimal to no TE DISPO gulations. Con	to the environm one. SAL CONSI Insult disposal ex IFORMATIO	IDERATIONS opert.		h the soil.		
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Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national ref SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number:	If released in Not available Minimal to no TE DISPO gulations. Con	to the environm and SAL CONSI Isult disposal ex IFORMATIO Flammable Lic 3 None UN 1993	IDERATIONS kpert. IN quid, n.o.s. (Acetone, Tetr DOT Limite	ahydrofuran) ed Quantity: Up	EX to 1L per inne	er packaging, 30 kg gross w	eight per package.
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national res SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group:	If released in Not available Minimal to no TE DISPO gulations. Con	to the environm one. SAL CONSI Isult disposal ex IFORMATIO Flammable Lic 3 None UN 1993 PG II	IDERATIONS copert. DN quid, n.o.s. (Acetone, Tetr DOT Limite Consumer	ahydrofuran) ed Quantity: Up	EX to 1L per inne	er packaging, 30 kg gross w	ping eight per package. nay qualify under DOT as "ORM-
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rep SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	If released in Not available Minimal to no TE DISPO gulations. Con	to the environm pone. SAL CONSI insult disposal ex IFORMATIC 3 None UN 1993 PG II Class 3 Flamm	IDERATIONS copert. DN quid, n.o.s. (Acetone, Tetr DOT Limite Consumer	ahydrofuran) ed Quantity: Up	EX to 1L per inne	er packaging, 30 kg gross w	eight per package.
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national res SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group:	If released in Not available Minimal to no TE DISPO gulations. Con	to the environm one. SAL CONSI Isult disposal ex IFORMATIO Flammable Lic 3 None UN 1993 PG II	IDERATIONS copert. DN quid, n.o.s. (Acetone, Tetr DOT Limite Consumer	ahydrofuran) d Quantity: Up Commodity: D	EX to 1L per inne epending on p	er packaging, 30 kg gross we packaging, these quantities n	eight per package.
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Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rep SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	If released in Not available Minimal to no TE DISPO gulations. Con	to the environm pone. SAL CONSI insult disposal ex IFORMATIC 3 None UN 1993 PG II Class 3 Flamm	Apert. N Quid, n.o.s. (Acetone, Tetr DOT Limite Consumer nable Liquid	ahydrofuran) Id Quantity: Up Commodity: D Ti FLAMMABL	EX to 1L per inne epending on p DG INFORMA' E LIQUID 3	er packaging, 30 kg gross wa ackaging, these quantities n TION	eight per package.
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WELD×		_D-ON® 705™	_ow VO	C Cemei	nts for PV	C Plastic F	Pipe	Supersedes:	JUN 2018 NOV 2017	
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PRODUCT NAME:	WELD-ON® 705™ Low VC			Pipe						
PRODUCT USE:	Low VOC Solvent Cement f			•						
SUPPLIER:			ANUFAC	TURER:	IPS Corporat	tion				
					17109 South	Main Street, G				
					Tel. 1-310-89	9, Gardena, CA 98-3300	4 90247-037	9		
EMERGENCY: Transportati	ion: CHEMTEL Tel. 800.255-	3924, +1 813-248-0	585 (Intern				0.255-3924,	+1 813-248-	0585 (International	i
SECTION 2 - HAZA	RDS IDENTIFICATION	N								
GHS CLASSIFICATION:										
Hea Acute Toxicity:	alth Category 4	Acute Toxicity:	Environme No	ental one Known		Flammable Li		nysical	Category 2	
Skin Irritation:		Chronic Toxicity:		one Known			quiu		outogoly 2	
Skin Sensitization:	NO									
Eye:	Category 2									
GHS LABEL:		-	Word:			WHMIS CLASS	IFICATION:	CLASS B, D		
		Dar	nger					CLASS D, L	DIVISION 1B	
	Hazard Statements					Precautiona	ry Statement	S		-
H225: Highly flammable liquid and						arks/open flames/		No smoking		
H319: Causes serious eye irritatio H332: Harmful if inhaled	on					e/gas/mist/vapors rotective clothing/		ace protoction		
H332: Harmful if innaled H335: May cause respiratory irrita	ation								ion comfortable for bre	athina
H336: May cause drowsiness or c						tilated place. Kee				9
H351: Suspected of causing cano			P5	501: Dispose o	of contents/conta	ainer in accordand	ce with local reg	gulation		
EUH019: May form explosive per	roxides POSITION/INFORMAT			\$						
DESTICING - COMP	CONTON/INFORMAT	CAS# EINEC	S #	REA		C	ONCENTRATIO			
Tetrahydrofuran (THF)	-	109-99-9 203-		re-registration 5-211629772			% by Weight 25 - 50	-		
Methyl Ethyl Ketone (MEK)				5-211629772			25 - 50 5 - 36			
Cyclohexanone				5-21162977			15 - 30			
	s adhesive product are listed									
	subject to the reporting requir al is found on Proposition 65's								40CFR372).	
							reproductive	E LOXICITY.		
SLUTION 4 - FIRST	AID MEASURES						reproductive	e toxicity.		
Contact with eyes:	AID MEASURES Flush eyes immediately with	plenty of water for 1					reproductive	e toxicity.		
Contact with eyes: Skin contact:	Flush eyes immediately with Remove contaminated cloth	ing and shoes. Was	5 minutes sh skin tho	s and seek n proughly with	nedical advice n soap and w	e immediately. ater. If irritation	n develops, s	seek medical		
Contact with eyes: Skin contact: Inhalation:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea	ing and shoes. Was athing is stopped, giv	5 minutes sh skin tho e artificial	s and seek n proughly with respiration.	nedical advic n soap and w If breathing	e immediately. ater. If irritation is difficult, give	n develops, s oxygen. Se	seek medical ek medical a	dvice.	
Contact with eyes: Skin contact: Inhalation: Ingestion:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi	ing and shoes. Was athing is stopped, giv ve 1 or 2 glasses of	5 minutes sh skin tho e artificial	s and seek n proughly with respiration.	nedical advic n soap and w If breathing	e immediately. ater. If irritation is difficult, give	n develops, s oxygen. Se	seek medical ek medical a	dvice.	
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey	ing and shoes. Was athing is stopped, giv	5 minutes sh skin tho e artificial	s and seek n proughly with respiration.	nedical advic n soap and w If breathing	e immediately. ater. If irritation is difficult, give	n develops, s oxygen. Se	seek medical ek medical a	dvice.	
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer Inhalation:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may n	ating and shoes. Was athing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz	5 minutes sh skin tho e artificial water or m iness, hea	s and seek n proughly with respiration. nilk to dilute. adache. Ca	nedical advic n soap and w If breathing Do not indu n cause drow	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio	n develops, s oxygen. Se beek medical on of eyes an	eek medical ek medical ad advice imme d nasal pass	dvice. diately. ages.	
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer Inhalation: Eye Contact:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may I Vapors slightly uncomfortab	ting and shoes. Was athing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz ile. Overexposure m	5 minutes sh skin tho e artificial water or m iness, hea ay result i	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey	nedical advice n soap and we If breathing Do not indu n cause drow re injury with o	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio corneal or conj	n develops, s oxygen. Se seek medical on of eyes an unctival inflar	seek medical ad ek medical ad advice imme d nasal pass mmation on c	dvice. diately. ages.	d.
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effec Inhalation: Eye Contact: Skin Contact: Ingestion:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may in Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomiting	ting and shoes. Was thing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz ile. Overexposure m natural skin oils resu g, diarrhea and meni	5 minutes sh skin tho e artificial water or m iness, hea ay result i lting in ski	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey in irritation.	nedical advice n soap and we If breathing Do not indu n cause drow re injury with o	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio corneal or conj	n develops, s oxygen. Se seek medical on of eyes an unctival inflar	seek medical ad ek medical ad advice imme d nasal pass mmation on c	dvice. diately. ages.	d.
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Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer Inhalation: Eye Contact: Skin Contact: Ingestion: Chronic (long-term) effect SECTION 5 - FIREF Suitable Extinguishing M	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may I Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomitin, ts: Category 2 C: TIGHTING MEASURES Wedia: Dry chemical	ing and shoes. Was trhing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz le. Overexposure m natural skin oils resu g, diarrhea and meni arcinogen S powder, carbon diox	5 minutes sh skin tho e artificial water or m iness, hea ay result i lting in ski al sluggish	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey in irritation. hness.	nedical advict n soap and w If breathing Do not indu n cause drow re injury with o Dermatitis m	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatic corneal or conj ay occur with p	n develops, s oxygen. Se seek medical on of eyes an unctival inflar orolonged cor HMIS	eek medical a ek medical a advice imme d nasal pass mmation on c ntact.	dvice. diately. ages. xontact with the liqu 0-Minimal	d.
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Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer Inhalation: Eye Contact: Skin Contact: Ingestion: Chronic (long-term) effect SUitable Extinguishing M Unsuitable Extinguishing M	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may f Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomitin ts: Category 2 Ci FIGHTING MEASURES Wedia: Dry chemical g Media: Water spray o Inhalation and	thing and shoes. Was thing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz ele. Overexposure m natural skin oils resu g, diarrhea and ment arcinogen powder, carbon diox or stream.	5 minutes sh skin tho e artificial water or m iness, hea ay result i lting in ski al sluggish ide gas, fc	s and seek n oroughly with I respiration. nilk to dilute. adache. Ca in severe ey in irritation. hness.	nedical advict n soap and w If breathing Do not indu n cause drow re injury with o Dermatitis m	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatic corneal or conj ay occur with p Health Flammability Reactivity	n develops, s oxygen. Se ieek medical on of eyes an unctival inflat prolonged cor HMIS 2 3 0	eek medical a ek medical a advice imme d nasal pass mmation on c ntact. NFPA 2	dvice. diately. ages. contact with the liqu 0-Minimal 1-Slight 2-Moderate 3-Serious	d.
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WELD-ON® 705[™] Low VOC Cements for PVC Plastic Pipe

Date Revised: JUN 2018 Supersedes: NOV 2017

SECTION 9 - PHYS	ICAL AND						
Appearance:			y, medium syrupy l	liquid			
Odor:		Ketone				Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:		Not Applicat					
Melting/Freezing Point: Boiling Point: Flash Point:		-108.5°C (-163.3°F) Based on first melting cor 66°C (151°F) Based on first boiling componen				Boiling Range: Evaporation Rate:	66°C (151°F) to 156°C (313°F) > 1.0 (BUAC = 1)
Specific Gravity: Solubility:				r Dooin n	ortion separates out.	Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 11.8% based on THF
Partition Coefficient	n octanol/wa		Not Available	i. Resin p	onion separates out.	Vapor Pressure:	129 mm Hg @ 20°C (68°F)based on
Auto-ignition Temper			F) based on THF			Vapor Density:	>2 (Air = 1)
Decomposition Temp		Not Applicat				Other Data: Viscosity:	Medium bodied
VOC Content:	, or at a r o r			SCAQMD	Rule 1168. Test Method 3	16A,VOC content is: < 500	
SECTION 10 - STAN	ΒΙΙ ΙΤΥ ΔΝ				,	- ,	5
Stability:		DINEAUTI	Stable				
Hazardous decompos	sition produc	cts:		ise. When	forced to burn, this produ	ct gives off oxides of carbon	, hydrogen chloride and smoke.
Conditions to avoid:					ks, open flame and other i		, .,
Incompatible Materia	ls:				l bases, amines, ammonia		
SECTION 11 - TOX		AL INFOR					
oxicity:		LD50			LC ₅₀		Target Organs
Tetrahydrofuran (THF)		Oral: 2842 n	og/kg (rot)			3 hrs. 21,000 mg/m ³ (rat)	STOT SE3
Methyl Ethyl Ketone (MEK	`		ng/kg (rat), Dermal:	· 6490 mg		3 hrs. 23,500 mg/m ³ (rat)	STOT SE3
Cyclohexanone)		ng/kg (rat), Dermal			4 hrs. 8,000 PPM (rat)	3101 323
-				-			
Reproductive Effects Not Established		genicity tablished	Mutageni Not Establi		Embryotoxicity Not Established	Sensitization to Produce Not Established	t Synergistic Products Not Established
				sneu	Not Established	Not Established	Not Established
SECTION 12 - ECO		-	TION				
Ecotoxicity:	None Knowr						
					0.000 V		00 J
Mobility:	In normal us	e, emission of	volatile organic co	ompounds	(VOC's) to the air takes pl	ace, typically at a rate of \leq 5	00 g/l.
Degradability:	In normal us Not readily b	e, emission of iodegradable	volatile organic co	ompounds	(VOC's) to the air takes pl	ace, typically at a rate of \leq 5	00 g/l.
Degradability: Bioaccumulation:	In normal us Not readily b Minimal to ne	e, emission of iodegradable one.			(VOC's) to the air takes pl	ace, typically at a rate of \leq 5	00 g/l.
Degradability: Bioaccumulation: SECTION 13 - WAS	In normal us Not readily b Minimal to no TE DISPO	e, emission of iodegradable one. SAL CON	SIDERATIONS		(VOC's) to the air takes pl	ace, typically at a rate of \leq 5	00 g/l.
Degradability: Bioaccumulation: SECTION 13 - WAS	In normal us Not readily b Minimal to no TE DISPO	e, emission of iodegradable one. SAL CON	SIDERATIONS		(VOC's) to the air takes pl	ace, typically at a rate of \leq 5	00 g/l.
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national reg	In normal us Not readily b Minimal to no TE DISPO gulations. Co	e, emission of iodegradable one. SAL CON nsult disposal	SIDERATIONS expert.		(VOC's) to the air takes pl	ace, typically at a rate of \leq 5	00 g/l.
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national res SECTION 14 - TRAN Proper Shipping Name:	In normal us Not readily b Minimal to no TE DISPO gulations. Co	e, emission of iodegradable one. SAL CON nsult disposal	SIDERATIONS expert.				00 g/l.
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rea SECTION 14 - TRAN	In normal us Not readily b Minimal to no TE DISPO gulations. Co	e, emission of iodegradable one. SAL CON NSUIT disposal	SIDERATIONS expert. ON	3	EXCEP	FION for Ground Shipping	-
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rep SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk:	In normal us Not readily b Minimal to no TE DISPO gulations. Co	e, emission of biodegradable one. SAL CONS nsult disposal NFORMATI Adhesives 3 None	SIDERATIONS expert. ON	S T Limited	EXCEP Quantity: Up to 5L per in	TION for Ground Shipping ner packaging, 30 kg gross	weight per package.
Degradability: Bioaccumulation: SECTION 13 - WAS Collow local and national re SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number:	In normal us Not readily b Minimal to no TE DISPO gulations. Co	e, emission of iodegradable one. SAL CON SAL CON ISON IFORMATI Adhesives 3 None UN 1133	SIDERATIONS expert. ON	S T Limited	EXCEP Quantity: Up to 5L per in	TION for Ground Shipping ner packaging, 30 kg gross	-
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rep SECTION 14 - TRAM Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group:	In normal us Not readily b Minimal to no TE DISPO gulations. Co	e, emission of iodegradable one. SAL CONS nsult disposal IFORMATI Adhesives 3 None UN 1133 PG II	SIDERATIONS expert. ON DO Con	S T Limited	EXCEP Quantity: Up to 5L per ir ommodity: Depending or	FION for Ground Shipping ner packaging, 30 kg gross i packaging, these quantities	weight per package.
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national reg SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	In normal us Not readily b Minimal to no TE DISPO gulations. Co	e, emission of iodegradable one. SAL CONS ISAL	SIDERATIONS expert. ON	S T Limited	EXCEP Quantity: Up to 5L per in ommodity: Depending or T	FION for Ground Shipping ner packaging, 30 kg gross packaging, these quantities DG INFORMATION	weight per package. s may qualify under DOT as "ORM-D" .
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rep SECTION 14 - TRAM Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group:	In normal us Not readily b Minimal to no TE DISPO gulations. Co	e, emission of iodegradable one. SAL CONS nsult disposal IFORMATI Adhesives 3 None UN 1133 PG II	SIDERATIONS expert. ON DO Con	S T Limited	EXCEP Quantity: Up to 5L per ir ommodity: Depending or TDG CLASS:	FION for Ground Shipping ner packaging, 30 kg gross packaging, these quantities DG INFORMATION FLAMMABL	weight per package. s may qualify under DOT as "ORM-D" . E LIQUID 3
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Degradability: Bioaccumulation: SECTION 13 - WAS Sollow local and national reg SECTION 14 - TRAM Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG	In normal us Not readily b Minimal to no TE DISPO gulations. Co ISPORT IN	e, emission of iodegradable one. SAL CON3 nsult disposal FORMATI Adhesives 3 None UN 1133 PG II Class 3 Flar NO	SIDERATIONS expert. ON DO Con nmable Liquid) T Limited nsumer C	EXCEP Quantity: Up to 5L per ir ommodity: Depending or TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING	FION for Ground Shipping ner packaging, 30 kg gross packaging, these quantities DG INFORMATION FLAMMABL ADHESIVE: GROUP: UN 1133, P	weight per package. s may qualify under DOT as "ORM-D" . E LIQUID 3 S G II
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national reg SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label	In normal us Not readily b Minimal to no TE DISPO gulations. Co ISPORT IN	e, emission of iodegradable one. SAL CONS ISAL CONS ISAL CONS INFORMATI Adhesives 3 None UN 1133 PG II Class 3 Flar NO INFORMA Highly Flarm	SIDERATIONS expert. ON DO Con nmable Liquid) T Limited nsumer C	EXCEP Quantity: Up to 5L per in ommodity: Depending or TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING Ingredient Listings: USA	FION for Ground Shipping ner packaging, 30 kg gross packaging, these quantities DG INFORMATION FLAMMABL ADHESIVES GROUP: UN 1133, P TSCA, Europe EINECS, Ca	weight per package. s may qualify under DOT as "ORM-D" . E LIQUID 3 S G II nada DSL, Australia
Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rej SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols:	In normal us Not readily b Minimal to nu TE DISPO gulations. Co ISPORT IN ULATORY nformation:	e, emission of iodegradable one. SAL CONS None UN 1133 PG II Class 3 Flar NO INFORMAT	SIDERATIONS expert. ON DO Con nmable Liquid) T Limited nsumer C	EXCEP Quantity: Up to 5L per in ommodity: Depending or TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING Ingredient Listings: USA	FION for Ground Shipping ner packaging, 30 kg gross packaging, these quantities DG INFORMATION FLAMMABL ADHESIVE: GROUP: UN 1133, P	weight per package. s may qualify under DOT as "ORM-D" . E LIQUID 3 S G II nada DSL, Australia
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Degradability: Bioaccumulation: SECTION 13 - WASS Follow local and national reg SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label In Symbols: Risk Phrases:	In normal us Not readily b Minimal to ny TE DISPO gulations. Co ISPORT IN ULATORY nformation: R11: Highly fl R20: Harmful R36/37: Irrital	e, emission of jodegradable one. SAL CONS None UN 1133 PG II Class 3 Flar NO INFORMAT Highly Flamu F, Xi ammable. by inhalation. ing to eyes and	SIDERATIONS expert. ON Do Con nmable Liquid XTION mable, Irritant, Card	T Limited nsumer C	EXCEP Quantity: Up to 5L per ir ommodity: Depending or TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING Ingredient Listings: USA AICS, k R66: Repea R67: Vapors	TION for Ground Shipping ner packaging, 30 kg gross packaging, these quantities DG INFORMATION FLAMMABL ADHESIVE: GROUP: UN 1133, P TSCA, Europe EINECS, Ca forea ECL/TCCL, Japan MIT ted exposure may cause skin of may cause drowsiness and di	weight per package. s may qualify under DOT as "ORM-D" . E LIQUID 3 S G II nada DSL, Australia T (ENCS) dryness or cracking izziness
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Degradability: Bioaccumulation: ECTION 13 - WAS Ollow local and national registry ECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: ECTION 15 - REG Precautionary Label In Symbols: Risk Phrases:	In normal us Not readily b Minimal to nu TE DISPO gulations. Co ISPORT IN ULATORY Information: R11: Highly fl R20: Harmful R36/37: Irrital S9: Keep con S16: Keep av	e, emission of iodegradable one. ISAL CONS nsult disposal IFORMATI Adhesives 3 None UN 1133 PG II Class 3 Flar NO INFORMA Highly Flame F, Xi ammable. by inhalation. ing to eyes and tainer in a well-	SIDERATIONS expert. ON DO Con nmable Liquid XTION mable, Irritant, Card d respiratory system. ventilated place. is of ignition - No sm	T Limited nsumer C	EXCEP Quantity: Up to 5L per ir ommodity: Depending or T TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING Ingredient Listings: USA AICS, P R66: Repea R67: Vapors \$26: In case of contact witt S33: Take precautionary m	TION for Ground Shipping ner packaging, 30 kg gross packaging, these quantities DG INFORMATION FLAMMABL ADHESIVE: GROUP: UN 1133, P TSCA, Europe EINECS, Ca forea ECL/TCCL, Japan MIT ted exposure may cause skin o may cause drowsiness and di eyes, rinse immediately with easures against static dischar	weight per package. s may qualify under DOT as "ORM-D" . E LIQUID 3 S G II nada DSL, Australia T (ENCS) tryness or cracking izziness plenty of water and seek medical advice. gs.
Degradability: Bioaccumulation: ECTION 13 - WAS Dollow local and national reg ECTION 14 - TRAM Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: ECTION 15 - REG Precautionary Label In Symbols: Risk Phrases: Safety Phrases:	In normal us Not readily b Minimal to nu TE DISPO gulations. Co ISPORT IN ULATORY Information: R11: Highly fl R20: Harmful R36/37: Irrital S9: Keep con S16: Keep av S25: Avoid co	e, emission of iodegradable one. SAL CON: nsult disposal IFORMATI Adhesives 3 None UN 1133 PG II Class 3 Flar NO INFORMA Highly Flame F, Xi ammable. by inhalation. tainer in a well- tainer in a source ontact with eyes	SIDERATIONS expert. ON DO Con nmable Liquid XTION mable, Irritant, Card d respiratory system. ventilated place. is of ignition - No sm	T Limited nsumer C	EXCEP Quantity: Up to 5L per ir ommodity: Depending or T TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING Ingredient Listings: USA AICS, P R66: Repea R67: Vapors \$26: In case of contact witt S33: Take precautionary m	TION for Ground Shipping ner packaging, 30 kg gross packaging, these quantities DG INFORMATION FLAMMABL ADHESIVES GROUP: UN 1133, P TSCA, Europe EINECS, Ca forea ECL/TCCL, Japan MIT ted exposure may cause skin of may cause drowsiness and di eyes, rinse immediately with p	weight per package. s may qualify under DOT as "ORM-D" . E LIQUID 3 S G II nada DSL, Australia T (ENCS) tryness or cracking izziness plenty of water and seek medical advice. gs.
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WELD×		_D-ON® 705™	_ow VO	C Cemei	nts for PV	C Plastic F	Pipe	Supersedes:	JUN 2018 NOV 2017	
	JCT AND COMPANY I	DENTIFICATIO	N				-			_
PRODUCT NAME:	WELD-ON® 705™ Low VC			Pipe						
PRODUCT USE:	Low VOC Solvent Cement f			•						
SUPPLIER:			ANUFAC	TURER:	IPS Corporat	tion				
					17109 South	Main Street, G				
					Tel. 1-310-89	9, Gardena, CA 98-3300	4 90247-037	9		
EMERGENCY: Transportati	ion: CHEMTEL Tel. 800.255-	3924, +1 813-248-0	585 (Intern				0.255-3924,	+1 813-248-	0585 (International	i
SECTION 2 - HAZA	RDS IDENTIFICATION	N								
GHS CLASSIFICATION:										
Hea Acute Toxicity:	alth Category 4	Acute Toxicity:	Environme No	ental one Known		Flammable Li		nysical	Category 2	
Skin Irritation:		Chronic Toxicity:		one Known			quiu		outogoly 2	
Skin Sensitization:	NO									
Eye:	Category 2									
GHS LABEL:		-	Word:			WHMIS CLASS	IFICATION:	CLASS B, D		
		Dar	nger					CLASS D, L	DIVISION 1B	
	Hazard Statements					Precautiona	ry Statement	S		-
H225: Highly flammable liquid and						arks/open flames/		No smoking		
H319: Causes serious eye irritatio H332: Harmful if inhaled	on					e/gas/mist/vapors rotective clothing/		ace protoction		
H332: Harmful if innaled H335: May cause respiratory irrita	ation								ion comfortable for bre	athina
H336: May cause drowsiness or c						tilated place. Kee				9
H351: Suspected of causing cano			P5	501: Dispose o	of contents/conta	ainer in accordand	ce with local reg	gulation		
EUH019: May form explosive per	roxides POSITION/INFORMAT			\$						
DESTICING - COMP	CONTON/INFORMAT	CAS# EINEC	S #	REA		C	ONCENTRATIO			
Tetrahydrofuran (THF)	-	109-99-9 203-		re-registration 5-211629772			% by Weight 25 - 50	-		
Methyl Ethyl Ketone (MEK)				5-211629772			25 - 50 5 - 36			
Cyclohexanone				5-21162977			15 - 30			
	s adhesive product are listed									
	subject to the reporting requir al is found on Proposition 65's								40CFR372).	
							reproductive	E LOXICITY.		
SLUTION 4 - FIRST	AID MEASURES						reproductive	e toxicity.		
Contact with eyes:	AID MEASURES Flush eyes immediately with	plenty of water for 1					reproductive	e toxicity.		
Contact with eyes: Skin contact:	Flush eyes immediately with Remove contaminated cloth	ing and shoes. Was	5 minutes sh skin tho	s and seek n proughly with	nedical advice n soap and w	e immediately. ater. If irritation	n develops, s	seek medical		
Contact with eyes: Skin contact: Inhalation:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea	ing and shoes. Was athing is stopped, giv	5 minutes sh skin tho e artificial	s and seek n proughly with respiration.	nedical advic n soap and w If breathing	e immediately. ater. If irritation is difficult, give	n develops, s oxygen. Se	seek medical ek medical a	dvice.	
Contact with eyes: Skin contact: Inhalation: Ingestion:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi	ing and shoes. Was athing is stopped, giv ve 1 or 2 glasses of	5 minutes sh skin tho e artificial	s and seek n proughly with respiration.	nedical advic n soap and w If breathing	e immediately. ater. If irritation is difficult, give	n develops, s oxygen. Se	seek medical ek medical a	dvice.	
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey	ing and shoes. Was athing is stopped, giv	5 minutes sh skin tho e artificial	s and seek n proughly with respiration.	nedical advic n soap and w If breathing	e immediately. ater. If irritation is difficult, give	n develops, s oxygen. Se	seek medical ek medical a	dvice.	
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer Inhalation:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may n	ating and shoes. Was athing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz	5 minutes sh skin tho e artificial water or m iness, hea	s and seek n proughly with respiration. nilk to dilute. adache. Ca	nedical advic n soap and w If breathing Do not indu n cause drow	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio	n develops, s oxygen. Se beek medical on of eyes an	eek medical ek medical ad advice imme d nasal pass	dvice. diately. ages.	
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer Inhalation: Eye Contact:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may I Vapors slightly uncomfortab	ting and shoes. Was athing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz ile. Overexposure m	5 minutes sh skin tho e artificial water or m iness, hea ay result i	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey	nedical advice n soap and we If breathing Do not indu n cause drow re injury with o	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio corneal or conj	n develops, s oxygen. Se seek medical on of eyes an unctival inflar	seek medical ad ek medical ad advice imme d nasal pass mmation on c	dvice. diately. ages.	d.
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effec Inhalation: Eye Contact: Skin Contact: Ingestion:	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may in Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomiting	ting and shoes. Was thing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz ile. Overexposure m natural skin oils resu g, diarrhea and meni	5 minutes sh skin tho e artificial water or m iness, hea ay result i lting in ski	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey in irritation.	nedical advice n soap and we If breathing Do not indu n cause drow re injury with o	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio corneal or conj	n develops, s oxygen. Se seek medical on of eyes an unctival inflar	seek medical ad ek medical ad advice imme d nasal pass mmation on c	dvice. diately. ages.	d.
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effec Inhalation: Eye Contact: Skin Contact: Ingestion: Chronic (long-term) effect	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may in Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomitin, ts: Category 2 C	ing and shoes. Was thing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz le. Overexposure m natural skin oils resu g, diarrhea and meni arcinogen	5 minutes sh skin tho e artificial water or m iness, hea ay result i lting in ski	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey in irritation.	nedical advice n soap and we If breathing Do not indu n cause drow re injury with o	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio corneal or conj	n develops, s oxygen. Se seek medical on of eyes an unctival inflar	seek medical ad ek medical ad advice imme d nasal pass mmation on c	dvice. diately. ages.	d.
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effec Inhalation: Eye Contact: Skin Contact: Ingestion: Chronic (long-term) effect SECTION 5 - FIREF	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may in Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomitin ts: Category 2 Ci FIGHTING MEASURES	ting and shoes. Was thing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz le. Overexposure m natural skin oils resu g, diarrhea and meni arcinogen	5 minutes sh skin tho e artificial water or m iness, hea ay result i lting in ski al sluggish	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey in irritation. hness.	nedical advict n soap and w If breathing Do not indu n cause drow re injury with o Dermatitis m	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio corneal or conj	n develops, s oxygen. Se seek medical on of eyes an unctival inflar prolonged cor	eek medical a ek medical a advice imme d nasal pass mmation on c ntact.	dvice. diately. ages. contact with the liqu	d.
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effer Inhalation: Eye Contact: Skin Contact: Ingestion: Chronic (long-term) effect SECTION 5 - FIREF Suitable Extinguishing M	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may I Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomitin, ts: Category 2 C: TIGHTING MEASURES Wedia: Dry chemical	ing and shoes. Was trhing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz le. Overexposure m natural skin oils resu g, diarrhea and meni arcinogen S powder, carbon diox	5 minutes sh skin tho e artificial water or m iness, hea ay result i lting in ski al sluggish	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey in irritation. hness.	nedical advict n soap and w If breathing Do not indu n cause drow re injury with o Dermatitis m	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatic corneal or conj ay occur with p	n develops, s oxygen. Se seek medical on of eyes an unctival inflar orolonged cor HMIS	eek medical a ek medical a advice imme d nasal pass mmation on c ntact.	dvice. diately. ages. xontact with the liqu 0-Minimal	d.
Contact with eyes: Skin contact: Inhalation: Ingestion: Likely Routes of Exposure Acute symptoms and effec Inhalation: Eye Contact: Skin Contact: Ingestion: Chronic (long-term) effect SECTION 5 - FIREF	Flush eyes immediately with Remove contaminated cloth Remove to fresh air. If brea Rinse mouth with water. Gi e: Inhalation, Ey cts: Severe overexposure may In Vapors slightly uncomfortab Liquid contact may remove May cause nausea, vomitin, ts: Category 2 G FIGHTING MEASURES Wedia: Dry chemical g Media: Water spray C	ing and shoes. Was trhing is stopped, giv ve 1 or 2 glasses of e and Skin Contact result in nausea, dizz le. Overexposure m natural skin oils resu g, diarrhea and meni arcinogen S powder, carbon diox	5 minutes sh skin tho e artificial water or m iness, hea ay result i lting in ski al sluggish	s and seek n proughly with respiration. nilk to dilute. adache. Ca in severe ey in irritation. hness.	nedical advict n soap and w If breathing Do not indu n cause drow re injury with o Dermatitis m	e immediately. ater. If irritation is difficult, give ce vomiting. S vsiness, irritatio corneal or conj	n develops, s oxygen. Se seek medical on of eyes an unctival inflar prolonged cor	eek medical a ek medical a advice imme d nasal pass mmation on c ntact.	dvice. diately. ages. contact with the liqu	d.
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GHS SAFETY DATA SHEET

WELD-ON® 705[™] Low VOC Cements for PVC Plastic Pipe

Date Revised: JUN 2018 Supersedes: NOV 2017

				-				
SECTION 9 - PHYS	ICAL AND							
Appearance:			y, medium syri	upy liquid				
Odor:		Ketone				Odor Threshold:	0.88 ppm (Cyclohexanone)	
pH: Melting/Freezing Poir		Not Applicat		d on first maltin	g component: THF	Boiling Range:	66°C (151°F) to 156°C (313°F)	
Boiling Point:	nı:			st boiling comp		Evaporation Rate:	> 1.0 (BUAC = 1)	
Flash Point:			TCC based on his			Flammability:	Category 2	
Specific Gravity:		0.9611 @23				Flammability Limits:	LEL: 1.1% based on Cyclohexanone	
Solubility:				water Resin n	ortion separates out.	Fighting Entries.	UEL: 11.8% based on THF	
Partition Coefficient	n-octanol/wa		Not Available		onion ooparatoo oati	Vapor Pressure:	129 mm Hg @ 20°C (68°F)based on Th	
Auto-ignition Temper			F) based on T			Vapor Density:	>2 (Air = 1)	
Decomposition Temp		Not Applicat				Other Data: Viscosity:	Medium bodied	
VOC Content:		When applie	d as directed,	per SCAQMD	Rule 1168, Test Method 3	316A,VOC content is: < 500	g/l.	
SECTION 10 - STAN	BILITY AN	D REACTI	VITY					
Stability:			Stable					
Hazardous decompo	sition produ	cts:	None in norm	nal use. When	forced to burn, this produ	ct gives off oxides of carbon	, hydrogen chloride and smoke.	
Conditions to avoid:			Keep away f	rom heat, sparl	ks, open flame and other i	gnition sources.		
Incompatible Materia	ls:		Oxidizers, st	rong acids and	bases, amines, ammonia			
SECTION 11 - TOX	ICOLOGIC	AL INFOR	MATION					
oxicity:		LD50			LC ₅₀		Target Organs	
Tetrahydrofuran (THF)		Oral: 2842 n	ng/kg (rat)		Inhalation	3 hrs. 21,000 mg/m ³ (rat)	STOT SE3	
Methyl Ethyl Ketone (MEK	.)	Oral: 2737 n	ng/kg (rat), De	rmal: 6480 mg/	kg (rabbit) Inhalation	8 hrs. 23,500 mg/m ³ (rat)	STOT SE3	
Cyclohexanone		Oral: 1535 n	ng/kg (rat), De	rmal: 948 mg/k	g (rabbit) Inhalation	4 hrs. 8,000 PPM (rat)		
Reproductive Effects	Terato	genicity	Muta	genicity	Embryotoxicity	Sensitization to Produc	t Synergistic Products	
Not Established	Not Es	tablished	Not Es	tablished	Not Established	Not Established	Not Established	
SECTION 12 - ECO	LOGICAL	INFORMA	TION					
Ecotoxicity:	None Knowr	<u>ו</u>						
Mobility:	In normal us	e, emission of	volatile organ	ic compounds	(VOC's) to the air takes pl	ace, typically at a rate of < 5	00 g/l.	
Degradability:	Not readily b	oiodegradable						
Bioaccumulation:	Minimal to n	one.						
SECTION 13 - WAS	TE DISPO	SAL CON	SIDERATIC	ONS				
ollow local and national re								
SECTION 14 - TRAN	*		-					
Proper Shipping Name:		Adhesives	••••					
Hazard Class:		3			EXCEP	TION for Ground Shipping		
Secondary Risk:		None		DOT Limited	ted Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.			
Identification Number:		UN 1133		Consumer C	ommodity: Depending or	n packaging, these quantities	may qualify under DOT as "ORM-D" .	
Packing Group:		PG II						
Label Required:			nmable Liquid			DG INFORMATION		
Marine Pollutant:		NO			TDG CLASS:	FLAMMABL		
					SHIPPING NAME:	ADHESIVES		
					UN NUMBER/PACKING	GROUP: UN 1133, P	GII	
SECTION 15 - REG								
Precautionary Label I Symbols:	ntormation:	Highly Flami F, Xi	maple, Irritant,	Carc. Cat. 2		TSCA, Europe EINECS, Ca		
Sympols: Risk Phrases:	D44. Ulable 4				AICS, F	Korea ECL/TCCL, Japan MIT	I (ENCS)	
RISK FIII ases:	R11: Highly f	by inhalation.			DCC. Daara	ted exposure may cause skin o	nuness or cracking	
		by innalation. ting to eyes and	respiratory eve	stem		ted exposure may cause skin o s may cause drowsiness and di		
Safaty Dhrasas						-		
Safety Phrases:		tainer in a well-					blenty of water and seek medical advice.	
		vay from source ontact with eyes		io smoking.		easures against static discharged adical advise immediately and s		
					C.S. II SWAIISWEU, SEEK IIIE			
SECTION 16 - OTH		MATION						
Specification Informa			IDS Safat	Joolth & Enviro	nmontal Affaira	All ingradiants are same	ant with the requirements of the Evenness	
Department issuing on E-mail address:	uata sheet:				nmental Affairs		ant with the requirements of the European	
				pscorp.com>		•	iction of Hazardous Substances).	
Training necessary:					nd procedures contained in	n product literature.		
Reissue date / reasor					Standard Format			
Intended Use of Prod	iuct:		Solvent Cem	nent for PVC PI	asiic Pipe			

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

SAFETY DATA SHEET

WL1111100

Section 1. Identification

Product name	: WHITE LIGHTNING® STOP GAP!™ Minimal Expanding Insulating Foam
Product code	: WL1111100
Other means of identification	: Not available.
Product type	: Spray
Relevant identified uses o	f the substance or mixture and uses advised against
Paint or paint related materia	al.
Manufacturer	: White Lightning Products 101 W. Prospect Avenue Cleveland, OH 44115
Emergency telephone number of the company	: (216) 566-2917
Product Information Telephone Number	: (800) 241-5295
Regulatory Information Telephone Number	: (216) 566-2902

Section 2. Hazards identification

: (800) 424-9300

Transportation Emergency

Telephone Number

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE AEROSOLS - Category 1 <pre>GASES UNDER PRESSURE - Compressed gas ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</pre>
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 24% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 24% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10%
GHS label elements	
Hazard pictograms	

Section 2. Hazards identification

Signal word	: Danger
Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
General	 Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Wear protective gloves. Wear eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	 Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	 DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst. Please refer to the SDS for additional information. Keep out of reach of children. Keep
Hazards not otherwise classified	upright in a cool, dry place. Do not discard empty can in trash compactor. None known.

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Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Diphenylmethane Diisocyanate Polymer	≥25 - ≤50	9016-87-9
4, 4'-Diphenylmethane Diisocyanate	≥10 - ≤25	101-68-8
Propane	≥10 - ≤25	74-98-6
2-Methylpropane	≥10 - ≤25	75-28-5
Dimethyl Ether	≤5	115-10-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	: Get medical attention.
Inhalation	: If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure.
Ingestion	: Get medical attention. If necessary, call a poison center or physician.
Most important sympt Potential acute healtl	oms/effects, acute and delayed <u>n effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
<u>Over-exposure signs</u>	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following:
	respiratory tract irritation
	coughing
	wheezing and breathing difficulties
	asthma
	nausea or vomiting headache
	drowsiness/fatigue
	dizziness/vertigo
	unconsciousness
Skin contact	: Adverse symptoms may include the following:
	irritation
	redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
	: In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Notes to physician	The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:

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Section 6. Accidental release measures

Personal precautions, protect	tiv	e equipment and emergency procedures		
For non-emergency personnel	:	In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Shut off all ignition sources. No flares, smoking or flames in hazard area.		
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
Environmental precautions	:	No specific hazard.		
Methods and materials for containment and cleaning up				
Small spill	:	Use spark-proof tools and explosion-proof equipment.		
Large spill	:	Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools.
Advice on general occupational hygiene	:	Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Protect from sunlight. Store locked up. Eliminate all ignition sources. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limi	ts		
Diphenylmethane Diisocyanate Polymer 4, 4'-Diphenylmethane Diisocyanate	9016-87-9 101-68-8	None. ACGIH TLV (United States, 3/2019). TWA: 0.005 ppm 8 hours. NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m ³ 10 hours. TWA: 0.005 ppm 10 hours. CEIL: 0.2 mg/m ³ 10 minutes. CEIL: 0.02 ppm 10 minutes. OSHA PEL (United States, 5/2018). CEIL: 0.02 ppm CEIL: 0.2 mg/m ³		6).	
Propane	74-98-6	TWA: 1000	United States, 10/2016) opm 10 hours. mg/m ³ 10 hours.		
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Section 8. Exposure controls/personal protection

		OSHA PEL (United States, 5/2018). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
2-Methylpropane	75-28-5	NIOSH REL (United States, 10/2016). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. ACGIH TLV (United States, 3/2019). Explosive potential.
Dimethyl Ether	115-10-6	STEL: 1000 ppm 15 minutes. AIHA WEEL (United States, 7/2018). TWA: 1000 ppm 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
socyanuric acid polymethylene polyphenyl isocyanate	9016-87-9	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.07 mg/m ³ 8 hours. 8 hrs OEL: 0.005 ppm 8 hours. CA British Columbia Provincial (Canada, 5/2019). TWA: 0.005 ppm 8 hours. C: 0.01 ppm CA Ontario Provincial (Canada, 1/2018). C: 0.02 ppm TWA: 0.005 ppm 8 hours.
Diphenylmethane-4,4'-diisocyanate	101-68-8CA Alberta Provincial (Canada, 6/2 8 hrs OEL: 0.005 ppm 8 hours. 8 hrs OEL: 0.05 mg/m³ 8 hours. CA British Columbia Provincial (C 5/2019). Inhalation sensitizer. TWA: 0.005 ppm 8 hours. C: 0.01 ppm CA Quebec Provincial (Canada, 1/ Skin sensitizer. TWAEV: 0.005 ppm 8 hours. TWAEV: 0.005 ppm 8 hours. TWAEV: 0.051 mg/m³ 8 hours. CA Ontario Provincial (Canada, 1// TWA: 0.005 ppm 8 hours. CA Saskatchewan Provincial (Canada, 1// TWA: 0.005 ppm 8 hours. CA Saskatchewan Provincial (Canada, 1// TWA: 0.005 ppm 8 hours. CA Saskatchewan Provincial (Canada, 1// TWA: 0.005 ppm 15 minutes.	
Normal propane	74-98-6	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 1000 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada,
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Section 8. Exposure controls/personal protection

		5/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
Methyl-2 propane	75-28-5	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 800 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 5/2019). Explosive potential. STEL: 1000 ppm 15 minutes.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
4, 4'-Diphenylmethane Diisocyanate	101-68-8	NOM-010-STPS-2014 (Mexico, 4/2016).
Propane	74-98-6	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.
2-Methylpropane	75-28-5	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.

Appropriate engineering controls Environmental exposure controls	 Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	

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Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point/boiling range	: Not available.
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive	: Lower: 1.8%
(flammable) limits	Upper: 27%
Vapor pressure	: 13.5 kPa (101 mm Hg) [at 20°C]
Vapor density	: 1.55 [Air = 1]
Relative density	: 0.93
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.205 cm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 26.565 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Diphenylmethane Diisocyanate Polymer	LC50 Inhalation Vapor	Rat	490 mg/m ³	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>9400 mg/kg 49 g/kg	-
4, 4'-Diphenylmethane Diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
2-Methylpropane Dimethyl Ether	LC50 Inhalation Vapor LC50 Inhalation Gas. LC50 Inhalation Vapor	Rat Rat Rat	658000 mg/m³ 164000 ppm 309 g/m³	4 hours 4 hours 4 hours

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Diphenylmethane Diisocyanate Polymer	Eyes - Mild irritant	Rabbit	-	100 mg	-
4, 4'-Diphenylmethane Diisocyanate	Eyes - Moderate irritant	Rabbit	-	100 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Diphenylmethane Diisocyanate Polymer 4, 4'-Diphenylmethane Diisocyanate	-	3 3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Diphenylmethane Diisocyanate Polymer	Category 3	Not applicable.	Respiratory tract irritation
4, 4'-Diphenylmethane Diisocyanate	Category 3	Not applicable.	Respiratory tract irritation
Propane	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
2-Methylpropane	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation

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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Diphenylmethane Diisocyanate Polymer 4, 4'-Diphenylmethane Diisocyanate Propane 2-Methylpropane	Category 2 Category 2 Category 2 Category 2	Not determined Not determined	Not determined Not determined Not determined Not determined

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effe	cts	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	1	Can cause central nervous system (CNS) depression.
Symptoms related to the p	ohy	sical, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate ef	fec	ts and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.

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Section 11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (gases)	12000 ppm
Inhalation (vapors)	29.33 mg/l
Inhalation (dusts and mists)	2.94 mg/l

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4, 4'-Diphenylmethane Diisocyanate	-	200	low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered

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Section 13. Disposal considerations

when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport	2.1	2.1	2.1	2.1	2.1
hazard class(es)	PLANMALE GA				
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	_	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).			<u>Emergency</u> <u>schedules</u> F-D, S U
	ERG No.	ERG No.	ERG No.		
	126	126	126		
 Special precautions for user Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations. Transport in bulk according to Annex II of MARPOL and the IBC Code 					

Proper shipping name	: Not available.
Ship type	: Not available.
Pollution category	: Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

Not applicable.	
International regulations	
International lists	 Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan Chemical Substances Inventory (TCSI): Not determined. Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
RESPIRATORY SENSITIZATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPEČIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
<u>History</u>	
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revision	
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Section 16. Other information

Version	: 5
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	ZEP NEUTRAL PH FLOOR CLEANER CONCENTRATE
Material number	:	ZUNEUT128
Manufacturer or supplier's d	eta	ails
Company	:	Zep Inc.
Address	:	350 Joe Frank Harris Parkway, SE Emerson, GA 30137
Telephone	:	404-352-1680

Emergency telephone numbers		
For SDS Information	: Compliance Services 1-877-428-9937	
For a Medical Emergency	: 877-541-2016 Toll Free - All Calls Recorded	
For a Transportation	: CHEMTREC: 800-424-9300 - All Calls Recorded.	
Emergency	In the District of Columbia 202-483-7616	

Recommended use of the chemical and restrictions on use

Note: This product is labeled as a consumer product in accordance with the United States Consumer Product Safety Commission regulations. The warnings presented below in this Safety Data Sheet (SDS) comply with the 2012 OSHA Hazard Communication Standard (GHS - Globally Harmonized System of Classification and Labeling). The requirements for the labeling and warnings of consumer products may differ from those required for GHS based hazard communication.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	green
Odour	pleasant

GHS Classification		
Eye irritation	: Category 2A	
GHS label elements		
Hazard pictograms	: Exclamation mark	
Signal word	: Warning	
Hazard statements	: H319 Causes serious eye irritation.	
Precautionary statements	: Prevention: P264 Wash skin thoroughly after handling.	

attention.

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P280 Wear eye protection/ face protection. **Response:** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
Alcohols, C9-11, ethoxylated	68439-46-3	>= 1 - < 3
1-(1-methyl-2-propoxyethoxy)propan-2-ol	29911-27-1	>= 1 - < 3

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

General advice	: Do not leave the victim unattended. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	 If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
In case of eye contact	 Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing.
If swallowed	 Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	: Effects may be delayed, symptoms may include minor eye or skin irritation. Overexposure may cause mild eye or skin irritation.

Version 1.3	Revision Date 06/10/2020	Print Date 12/15/2020
Notes to physician	: Treat symptomatically. Symptoms	may be delayed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Dry chemical Carbon dioxide (CO2) Alcohol-resistant foam Water spray jet
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products Specific extinguishing methods	 Carbon dioxide (CO2) Carbon monoxide Smoke Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	: Standard procedure for chemical fires.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Environmental precautions	: Use personal protective equipment.: Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Avoid exposure - obtain special instructions before use. Do not breathe vapours or spray mist. Take precautionary measures against static discharges.
	Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms.

Version 1.3		Revision Date 06/10/2020	Print Date 12/15/2020
Conditions for safe storage	:	Keep container tightly closed in a dry place. Electrical installations / working mate the technological safety standards.	
Materials to avoid	:	Keep away from oxidizing agents an materials.	d strongly acid or alkaline

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	effective ventilation in all processing areas	
Personal protective equipme	nt	
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.	
Hand protection Material Remarks	 Protective gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves. 	
Eye protection	: Safety glasses	
Skin and body protection	: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.	
Hygiene measures	 When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. 	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: green
Odour	: pleasant
Odour Threshold	: No data available
рH	: 7.5 - 8.5
Melting point/freezing point	: No data available
Boiling point	: 100 °C
Flash point	:

: No data available

Version 1.3	Revision Date 06/10/2020	Print Date 12/15/2020
	does not flash	
Evaporation rate	: 1	
Line on our locker, line it		
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: not determined	
Relative vapour density	: No data available	
Density	: 1.03 g/cm3	
Solubility(ies)		
Water solubility	: soluble	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: not determined	
Thermal decomposition	: No data available	
Viscosity		

SECTION 10. STABILITY AND REACTIVITY

Viscosity, kinematic

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Incompatible materials	: Acids and bases Oxidizing agents
Hazardous decomposition products	: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical Condition	:	None known.
Symptoms of Overexposure	:	Effects may be delayed, symptoms may include minor eye or skin irritation. Overexposure may cause mild eye or skin irritation. Treat symptomatically. Symptoms may be delayed.

Version 1.3 Revision Date 06/10/2020 Print Date 12/15/2020 **Carcinogenicity:** IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. Acute toxicity Product: : Acute toxicity estimate : > 5,000 mg/kg Acute oral toxicity Method: Calculation method **Components:** Alcohols, C9-11, ethoxylated: Acute oral toxicity : LD50 Oral Rat: 1,400 mg/kg Skin corrosion/irritation Product: Remarks: May irritate skin. Serious eye damage/eye irritation Product: Remarks: Contact with eyes may cause irritation. Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity No data available **Reproductive toxicity**

No data available

STOT - single exposure

No data available

STOT - repeated exposure

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No	data	available
110	autu	avanabio

Aspiration toxicity

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available Bioaccumulative potential

Product:

Partition coefficient: n- octanol/water	:	Remarks: No data available
Components: 1-(1-methyl-2-propoxyethoxy) p i	ropan-2-ol :
Partition coefficient: n- octanol/water	· ·	Pow: 7.7

Mobility in soil

No data available

Other adverse effects

No data available

Product:	
Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

/ersion 1.3 Revision Date 06/10/2020		Print Date 12/15/2020	
Disposal methods			
Waste from residues	: Do not dispose of waste into sewe Do not contaminate ponds, waterw chemical or used container. Dispose of in accordance with loca	ays or ditches with	
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.		

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list

: No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components		CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ethylbenzene		100-41-4	1000	*
*: Calculated RQ exceeds re	asona	bly attainable upper	limit.	
SARA 304 Extremely Haza	rdous	Substances Repo	rtable Quantity	
This material does not conta	in any	components with a	section 304 EHS	RQ.
SARA 311/312 Hazards	: S	erious eye damage	or eye irritation	
SARA 302		o chemicals in this r equirements of SAR		
SARA 313	k		that exceed the th	nical components with nreshold (De Minimis) itle III, Section 313.
California Prop. 65				
		WARNING: This pr including ethylbenz California to cause www.P65Warnings	ene, which is/are cancer. For more	known to the State of

Revision Date 06/10/2020

The components of this product are reported in the following inventories:

DSL	All components of this product are on the Canadian DSL
TSCA	On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

SECTION 16. OTHER INFORMATION

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Print Date 12/15/2020

Further information

NFPA:



0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme

HMIS III:



0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

OSHA - GHS Label Information:

Hazard pictograms

Signal word Hazard statements Precautionary statements



mark Warning: Causes serious eye irritation.

Prevention: Wash skin thoroughly after handling. Wear eye protection/ face protection. Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

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Revision Date 06/10/2020

Print Date 12/15/2020

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Version 1.3 Revision Date 06/10/2020 Print Date 08/26/2021

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	ZEP NEUTRAL PH FLOOR CLEANER CONCENTRATE
Material number	:	ZUNEUT128
Manufacturer or supplier's details		
Company	:	Zep Inc.
Address	:	350 Joe Frank Harris Parkway, SE Emerson, GA 30137
Telephone	:	404-352-1680

Emergency telephone numbers

For SDS Information	:	Compliance Services 1-877-428-9937
For a Medical Emergency	:	877-541-2016 Toll Free - All Calls Recorded
For a Transportation	:	CHEMTREC: 800-424-9300 - All Calls Recorded.
Emergency		In the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

Note: This product is labeled as a consumer product in accordance with the United States Consumer Product Safety Commission regulations. The warnings presented below in this Safety Data Sheet (SDS) comply with the 2012 OSHA Hazard Communication Standard (GHS - Globally Harmonized System of Classification and Labeling). The requirements for the labeling and warnings of consumer products may differ from those required for GHS based hazard communication.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	green
Odour	pleasant

GHS Classification	
Eye irritation	: Category 2A
GHS label elements	
Hazard pictograms	: Exclamation mark
Signal word	: Warning
Hazard statements	: H319 Causes serious eye irritation.
Precautionary statements	: Prevention: P264 Wash skin thoroughly after handling.

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P280 Wear eye protection/ face protection. **Response:** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
Alcohols, C9-11, ethoxylated	68439-46-3	>= 1 - < 3
1-(1-methyl-2-propoxyethoxy)propan-2-ol	29911-27-1	>= 1 - < 3

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

General advice	: Do not leave the victim unattended. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	 If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
In case of eye contact	 Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing.
If swallowed	 Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	 Effects may be delayed, symptoms may include minor eye or skin irritation. Overexposure may cause mild eye or skin irritation.

Version 1.3	Revision Date 06/10/2020	Print Date 08/26/2021
Notes to physician	: Treat symptomatically. Symptoms	s may be delayed.
SECTION 5. FIREFIGHTING MEAS	SURES	
Suitable extinguishing media	: Dry chemical Carbon dioxide (CO2) Alcohol-resistant foam Water spray jet	
Unsuitable extinguishing media	: High volume water jet	

Suitable extinguishing media	: Dry chemical Carbon dioxide (CO2) Alcohol-resistant foam Water spray jet
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon dioxide (CO2) Carbon monoxide Smoke
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	: Standard procedure for chemical fires.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment.
Environmental precautions	: Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Avoid contact with skin and eyes. For personal protection see section 8.
	Smoking, eating and drinking should be prohibited in the application area.
	Dispose of rinse water in accordance with local and national regulations.
	Avoid exposure - obtain special instructions before use.
	Do not breathe vapours or spray mist.
	Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms.

Version 1.3	Revision Date 06/10/2020	Print Date 08/26/2021
Conditions for safe storage	: Keep container tightly closed in a diplace. Electrical installations / working main the technological safety standards.	
Materials to avoid	: Keep away from oxidizing agents a materials.	nd strongly acid or alkaline

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	: effective ventilation in all processing areas
Personal protective equipme	nt
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection Material Remarks	 Protective gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Safety glasses
Skin and body protection	: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: green
Odour	: pleasant
Odour Threshold	: No data available
рН	: 7.5 - 8.5
Melting point/freezing point	: No data available
Boiling point	: 100 °C
Flash point	:

Version 1.3	Revision Date 06/10/2020	Print Date 08/26/2021	
	does not flash		
Evaporation rate	: 1		
Upper explosion limit	: No data available		
Lower explosion limit	: No data available		
Vapour pressure	: not determined		
Relative vapour density	: No data available		
Density	: 1.03 g/cm3		
Solubility(ies)			
Water solubility	: soluble		
Partition coefficient: n- octanol/water	: No data available		
Auto-ignition temperature	: not determined		
Thermal decomposition	: No data available		
Viscosity			
Viscosity, kinematic	: No data available		

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Incompatible materials	: Acids and bases Oxidizing agents
Hazardous decomposition products	: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical Condition	:	None known.
Symptoms of Overexposure	:	Effects may be delayed, symptoms may include minor eye or skin irritation. Overexposure may cause mild eye or skin irritation. Treat symptomatically. Symptoms may be delayed.

Version 1.3 Revision Date 06/10/2020 Print Date 08/26/2021 Carcinogenicity: IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. Acute toxicity Product: : Acute toxicity estimate : > 5,000 mg/kg Acute oral toxicity Method: Calculation method Components: Alcohols, C9-11, ethoxylated: : LD50 Oral Rat: 1,400 mg/kg Acute oral toxicity Skin corrosion/irritation Product: Remarks: May irritate skin. Serious eye damage/eye irritation Product: Remarks: Contact with eyes may cause irritation. Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity No data available **Reproductive toxicity** No data available STOT - single exposure No data available

STOT - repeated exposure

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No data available

Aspiration toxicity

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available Bioaccumulative potential

Product:

Partition coefficient: n- : Remarks: No data available octanol/water <u>Components:</u> 1-(1-methyl-2-propoxyethoxy)propan-2-ol : Partition coefficient: n- : Pow: 7.7 octanol/water Mobility in soil

No data available

Other adverse effects

No data available

Product:	
Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Version 1.3	Revision Date 06/10/2020	Print Date 08/26/2021	
Disposal methods			
Waste from residues	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations. 		
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.		

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list

: No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CA	S-No.	Component RQ (lbs)	Calculated product RQ (lbs)	
ethylbenzene	100)-41-4	1000	*	
*: Calculated RQ exceeds re	asonably a	ttainable upper	limit.		
SARA 304 Extremely Haza	rdous Sub	stances Repo	rtable Quantity		
This material does not conta	in any com	ponents with a	section 304 EHS	RQ.	
SARA 311/312 Hazards	: Seriou	s eye damage	or eye irritation		
SARA 302		No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
SARA 313	known	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.			
California Prop. 65					
	inclu Calif	iding ethylbenz	cancer. For more	known to the State of	

Revision Date 06/10/2020

The components of this product are reported in the following inventories:

All components of this product are on the Canadian DSL DSL TSCA On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

SECTION 16. OTHER INFORMATION

Print Date 08/26/2021

Version 1.3

SAFETY DATA SHEET ZEP NEUTRAL PH FLOOR CLEANER CONCENTRATE

Version 1.3

Revision Date 06/10/2020

Print Date 08/26/2021

Further information

NFPA:



0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

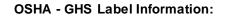
4 = Extreme

HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

- 2 = Moderate, 3 = High 4 = Extreme, * = Chronic



Hazard pictograms

Signal word Hazard statements Precautionary statements



mark Warning: Causes serious eye irritation.

Prevention: Wash skin thoroughly after handling. Wear eye protection/face protection. Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Version:	1.3
Revision Date:	06/10/2020
Print Date:	08/26/2021

SAFETY DATA SHEET ZEP NEUTRAL PH FLOOR CLEANER CONCENTRATE

Version 1.3

Revision Date 06/10/2020

Print Date 08/26/2021

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.



Version 1.2	Revision Date 03/18/2019	Print Date 05/30/2019	
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION			
Material name	: ZEP NEUTRAL PH FLOOR CLEA	NER CONCENTRATE	

Material number	:	ZUNEUT128		
Manufacturer or supplier's details				
Company	:	Zep Inc.		
Address	:	350 Joe Frank Harris Parkway, SE Emerson, GA 30137		
Telephone	:	404-352-1680		

Emergency telephone numbers

For SDS Information	:	Compliance Services 1-877-428-9937
For a Medical Emergency	:	877-541-2016 Toll Free - All Calls Recorded
For a Transportation	:	CHEMTREC: 800-424-9300 - All Calls Recorded.
Emergency		In the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

Recommended use : Floor Care

Note: This product is labeled as a consumer product in accordance with the United States Consumer Product Safety Commission regulations. The warnings presented below in this Safety Data Sheet (SDS) comply with the 2012 OSHA Hazard Communication Standard (GHS - Globally Harmonized System of Classification and Labeling). The requirements for the labeling and warnings of consumer products may differ from those required for GHS based hazard communication.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid	
Colour	green	
Odour	pleasant	

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components



Version 1.2

Revision Date 03/18/2019

Print Date 05/30/2019

Chemical name	CAS-No.	Concentration [%]
Alcohols, C10-14, ethoxylated	66455-15-0	>= 1 - < 5
1-(1-methyl-2-propoxyethoxy)propan-2-ol	29911-27-1	>= 1 - < 5

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

General advice	 Do not leave the victim unattended. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. 	
If inhaled	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. 	
In case of skin contact	 If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. 	
In case of eye contact	 Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. 	
If swallowed	 Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Take victim immediately to hospital. 	
Most important symptoms and effects, both acute and delayed	 Effects may be delayed, symptoms may include minor eye or skin irritation. Overexposure may cause mild eye or skin irritation. 	
Notes to physician	: Treat symptomatically. Symptoms may be delayed.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Dry chemical Carbon dioxide (CO2) Alcohol-resistant foam Water spray jet
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.



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Hazardous combustion products	: Carbon dioxide (CO2) Carbon monoxide Smoke	
Specific extinguishing methods	: Use extinguishing measures that a circumstances and the surrounding	
Further information	: Standard procedure for chemical fi	res.
Special protective equipment for firefighters	: Wear self-contained breathing approximation approximatio	aratus for firefighting if

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment.	
Environmental precautions	: Prevent further leakage or spillage if safe to do so.	
Methods and materials for containment and cleaning up	: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.	

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Avoid exposure - obtain special instructions before use. Do not breathe vapours or spray mist. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	Keep away from oxidizing agents and strongly acid or alkaline materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : effective ventilation in all processing areas



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Personal protective equipment	:	
Respiratory protection :	In case of insufficient ventilation, wear equipment.	suitable respiratory
Hand protection Material : Remarks :	Protective gloves The suitability for a specific workplace with the producers of the protective glo	
Eye protection :	Safety glasses	
Skin and body protection :	Impervious clothing Choose body protection according to t concentration of the dangerous substa	
Hygiene measures :	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the	end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	green
Odour	:	pleasant
Odour Threshold	:	No data available
рН	:	7.5 - 8.5
Melting point/freezing point	:	No data available
Boiling point	:	100 °C
Flash point	:	
		does not flash
Evaporation rate	:	1
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	not determined
Relative vapour density	:	No data available
Density	:	1.03 g/cm3
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	not determined
Thermal decomposition	:	No data available



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Viscosity

Viscosity, kinematic

: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Incompatible materials	: Acids and bases Oxidizing agents
Hazardous decomposition products	: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical Condition Symptoms of Overexposure	 None known. Effects may be delayed, symptoms may include minor eye or skin irritation.
Carcinogenicity:	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Acute toxicity

No data available

Skin corrosion/irritation

Product:

Remarks: May irritate skin.



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Serious eye damage/eye irritation

Product:

Remarks: Contact with eyes may cause irritation.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available Bioaccumulative potential

Product:

Partition coefficient: n- : Remarks: No data available octanol/water <u>Components:</u> 1-(1-methyl-2-propoxyethoxy)propan-2-ol : Partition coefficient: n- : Pow: 7.7 octanol/water



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Mobility in soil		
No data available		
Other adverse effects		
No data available Product:		
Regulation	40 CFR Protection of Environment; Stratospheric Ozone - CAA Section Substances	
Remarks	This product neither contains, nor w with a Class I or Class II ODS as de Clean Air Act Section 602 (40 CFR + B).	fined by the U.S.
Additional ecological information	: No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	No SARA Hazards	
SARA 302	No chemicals in this material are subject to the repo requirements of SARA Title III, Section 302.	rting
SARA 313	This material does not contain any chemical compor known CAS numbers that exceed the threshold (De reporting levels established by SARA Title III, Sectio	Minimis)
California Prop. 65		
	This product does not contain any chemicals know California to cause cancer, birth defects, or any oth reproductive harm.	

The components of this product are reported in the following inventories:

DSL	All components of this product are on the Canadian DSL
TSCA	On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

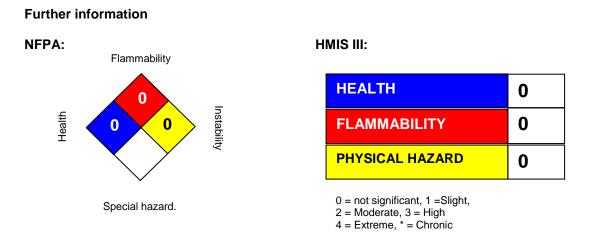


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SECTION 16. OTHER INFORMATION



OSHA - GHS Label Information:

Not a hazardous substance or mixture.

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We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical[™], Selig[™], Misty®, Next Dimension[™], Petro®, i-Chem®, TimeMist®, TimeWick[™], MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National[™], FC Forward Chemicals®,Rexodan®, Mykal[™], and a number of private labeled brands.

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Zĭppo

1 Identification

Product identifier

· Trade name: Zippo Lighter Fluid

· Recommended use and restriction on use

- · Recommended use: Fuel
- · Restrictions on use: Contact manufacturer/supplier

[.] Details of the supplier of the Safety Data Sheet

• **Manufacturer/Supplier:** Zippo Manufacturing Company 33 Barbour Street Bradford, PA 16701 Phone: 814-368-2700

• Emergency telephone number: ChemTel Inc.

(800)255-3924 (North America) +1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. [•] Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: GHS02 GHS07 GHS08 · Signal word: Danger · Hazard statements: H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. Precautionary statements: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. P241 Use only non-sparking tools. P242 Take precautionary measures against static discharge. P243 Wash thoroughly after handling. P264 P271 Use only outdoors or in a well-ventilated area.

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P280	Wear protective gloves and eye protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P331	Do NOT induce vomiting.
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use foam, powder, or carbon dioxide for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• Other hazards T	here are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

İ	68410-97-9 Distillates (petroleum), light distillate hydrotreating process, low-boiling	50-100%
	 Flam. Liq. 2, H225 Asp. Tox. 1, H304 	
	🚯 Skin Irrit. 2, H315; STOT SE 3, H336	
Ī	64742-49-0 Naphtha (petroleum), hydrotreated light	25-50%
	🚸 Flam. Liq. 2, H225	
	🚯 Asp. Tox. 1, H304	
	5TOT SE 3, H336	

· Additional information:

For the wording of the listed Hazard Statements, refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

[•] Description of first aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact:
Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation is experienced, consult a doctor.
After eye contact:
Protect unharmed eye.
Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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· After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side. Most important symptoms and effects, both acute and delayed: Breathing difficulty Coughing Dizziness Gastric or intestinal disorders when ingested. Irritant to skin and mucous membranes. Danger: Vapors have narcotic effect. May be fatal if swallowed and enters airways. Indication of any immediate medical attention and special treatment needed: If swallowed, gastric irrigation with added, activated carbon. If swallowed or in case of vomiting, danger of entering the lungs. Monitor circulation, possible shock treatment. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water stream.
- Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

In certain fire conditions, traces of other toxic gases cannot be excluded.

[•] Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information: Cool endangered containers with water fog.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective clothing. Particular danger of slipping on leaked/spilled product. Keep away from ignition sources. Protect from heat.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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[•] Methods and material for containment and cleaning up

Absorb liquid components with liquid-binding material.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

Precautions for safe handling:

Use only in well ventilated areas.

Prevent formation of aerosols.

Keep receptacles tightly sealed.

Information about protection against explosions and fires:

Protect from heat.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

[•] Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Use only receptacles specifically permitted for this substance/product.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from foodstuffs.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Exposure controls

• Engineering measures Provide adequate ventilation.

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid close or long term contact with the skin.

Keep ignition sources away - Do not smoke.

• Engineering controls: Provide adequate ventilation.

· Breathing equipment:

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Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

Protection of hands:

Not required under normal conditions of use.

Wear protective gloves to handle contents of damaged or leaking units.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. • **Body protection:** Not required under normal conditions of use.

• Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures See Section 7 for additional information.

Information on basic physical ar	nd chemical properties
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Petroleum-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	> 35 °C (>95 °F)
Flash point:	<-6.5 °C (<20.3 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive a vapor mixtures are possible.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	0.7 ± 0.05 g/cm ³ (5.84 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate at 20 °C (68 °F):	> 1

Partly miscible.

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· Partition coefficient (n-octanol/water): Not determined.

 Viscosity Dynamic: Kinematic:
 Other information

Water:

Not determined. Not determined. No relevant information available.

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability:

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

[•] Possibility of hazardous reactions

Forms explosive gas mixture with air.

Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.

[·] Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

· Incompatible materials No relevant information available.

• Hazardous decomposition products Carbon monoxide and carbon dioxide

11 Toxicological information

[·] Information on toxicological effects

• Acute toxicity:

- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eye: Based on available data, the classification criteria are not met.
- Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

• OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation. Eve contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity):

May be fatal if swallowed and enters airways.

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Irritating to skin.

May cause drowsiness or dizziness.

• Repeated dose toxicity: No relevant information available.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- STOT-single exposure: May cause drowsiness or dizziness.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: May be fatal if swallowed and enters airways.

12 Ecological information

[·] Toxicity

· Aquatic toxicity Toxic to aquatic life with long lasting effects.

Persistence and degradability Not easily biodegradable

- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.

Additional ecological information

· General notes:

This statement was deduced from the properties of the single components.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

· Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

[·] UN-Number

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	(Cont'd. of page
DOT, ADR, IMDG, IATA	UN1268
UN proper shipping name	
Limited Quantity for packages I gal).	less than 30 kg (66 lb) and inner packagings less than 1 L (
DOT, IATA ADR, IMDG	Petroleum distillates, n.o.s. PETROLEUM DISTILLATES, N.O.S.
Transport hazard class(es)	
DOT	
Class	3
Label	3
ADR	
Class	3 (F1)
Label	3
IMDG, IATA	
Class	3
Label	3
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards	Product contains environmentally hazardor substances: Distillates (petroleum), light distilla hydrotreating process, low-boiling, Naphtl (petroleum), hydrotreated light
Special precautions for user Danger code (Kemler): EMS Number:	Warning: Flammable liquids 33 F-E,S-E
Transport in bulk according to Anr	,
MARPOL73/78 and the IBC Code	Not applicable.

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m Ur	afety, health and environmental regulations/legislation specific for the substance ixture nited States (USA) ARA			
Se	ection 302 (extremely hazardous substances):			
No	one of the ingredients are listed.			
Se	ection 355 (extremely hazardous substances):			
No	one of the ingredients are listed.			
Se	ection 313 (Specific toxic chemical listings):			
No	one of the ingredients are listed.			
· TSCA (Toxic Substances Control Act)				
All	l ingredients are listed.			
· Proposition 65 (California)				
· Cł	nemicals known to cause cancer:			
Nc	one of the ingredients are listed.			
· Cł	nemicals known to cause developmental toxicity for females:			
Nc	one of the ingredients are listed.			
· Cł	nemicals known to cause developmental toxicity for males:			
Nc	one of the ingredients are listed.			
· Cł	nemicals known to cause developmental toxicity:			
Nc	one of the ingredients are listed.			
· EPA (Environmental Protection Agency):				
Nc	one of the ingredients are listed.			
· IARC (International Agency for Research on Cancer):				
No	one of the ingredients are listed.			
Ca	anadian Domestic Substances List (DSL) (Substances not listed.):			
All	l ingredients are listed.			

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation
- IATA: International Air Transport Association
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative

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(Cont'd. of page 9) Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com