Safety Data Sheets

All

IPL - Harding Street

01/11/2022

Safety Data Sheet Index

Binder: IPL - Harding Street - All

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SAFETY DATA SHEET

1. Identification

Product identifier	2-26® Multi-Purpose Precision Lubricant
Other means of identification	
Product code	02004
Recommended use	Multi-purpose lubricant
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)	703-527-3887 (International)
Website	www.crcindustries.com

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas
Health hazards	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal swallowed and enters airways. Toxic to aquatic life.	
Precautionary statemen	t	
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 apply while equipment is energized. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid release to the environment.	
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.	
Storage	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.	
	Dispose of contents/container in accordance with local/regional/national regulations.	
Disposal	Dispose of contents/container in accordance	

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated light		64742-47-8	60 - 70
Light mineral oil		8042-47-5	10 - 20
n-Butyl stearate		123-95-5	3 - 5
carbon dioxide		124-38-9	1 - 3
Petrolatum		8009-03-8	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Skin contact Rinse skin with water/shower. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. Eye contact Rinse with water. Get medical attention if irritation develops and persists. Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Most important Aspiration may cause pulmonary edema and pneumonitis. symptoms/effects, acute and delayed Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim under observation. medical attention and special Symptoms may be delayed. treatment needed Ensure that medical personnel are aware of the material(s) involved, and take precautions to General information protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Dry chemical powder. 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	Contents under pressure. Pressurized container may rupture 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	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. 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	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Keep away from heat/sparks/open flames/hot surfaces No smoking. 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. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Level 3 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 flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. 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 Value Form Type PEL carbon dioxide (CAS 9000 mg/m3 124-38-9) 5000 ppm Light mineral oil (CAS PEL 5 mg/m3 Mist. 8042-47-5) Petrolatum (CAS PFI 5 mg/m3 Mist. 8009-03-8) **US. ACGIH Threshold Limit Values** Form Value Components Type carbon dioxide (CAS STEL 30000 ppm 124-38-9) 5000 ppm TWA Light mineral oil (CAS TWA 5 mg/m3 Inhalable fraction. 8042-47-5) n-Butyl stearate (CAS TWA 10 mg/m3 123-95-5) Petrolatum (CAS TWA 5 mg/m3 Inhalable fraction. 8009-03-8) US. NIOSH: Pocket Guide to Chemical Hazards Form Components Type Value carbon dioxide (CAS STEL 54000 mg/m3 124-38-9) 30000 ppm TWA 9000 mg/m3 5000 ppm Distillates (petroleum), TWA 100 mg/m3 hydrotreated light (CAS 64742-47-8) Light mineral oil (CAS STEL 10 mg/m3 Mist. 8042-47-5) TWA Mist. 5 mg/m3 Petrolatum (CAS STEL 10 mg/m3 Mist. 8009-03-8) TWA 5 mg/m3 Mist. **Biological limit values** No biological exposure limits noted for the ingredient(s). Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates Appropriate engineering should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, controls

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 protective gloves such as: Nitrile. Neoprene. Wear suitable protective clothing. Other If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a **Respiratory protection** 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. Always observe good personal hygiene measures, such as washing after handling the material **General hygiene** and before eating, drinking, and/or smoking. Routinely wash work clothing and protective considerations equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Amber.
Odor	Mild petroleum.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-56.2 °F (-49 °C) estimated
Initial boiling point and boiling	Not available.
range	
Flash point	200 °F (93.3 °C) Tag Closed Cup
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	0.6 % estimated
Flammability limit - upper (%)	5.5 % estimated
Vapor pressure	1557.7 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.84 estimated
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	392 °F (200 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
	88.4 % 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	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of	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	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.		
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Headache. Nausea, vomiting. Diarrhea.		

Information on toxicological effects

Product Species Test Results 2-26® Multi-Purpose Precision Lubricant Acute Acute Acute Dermal LD50 Rabbit 2475 mg/kg estimated LD50 Rat 58740 ppm, 4 hours estimated Inhalation LC50 Rat 6263 mg/kg estimated Oral Estimates for product may be based on additional component data not shown. 6263 mg/kg estimated Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. 5erious eye damage/eye Irritation Direct contact with eyes may cause temporary irritation. 5erious eye damage/eye Respiratory sensitization Not a respiratory sensitizer. 5kin 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 1 Not classifiable as to carcinogenicity to humans. US. National Toxicology Program (XTP) Report on Carcinogens Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Not itisted. Specific target organ toxicity	Acute toxicity	May be fatal if swallowed and enters airways.	
Actual Dermal LD50Rabbit2475 mg/kg estimatedLD50Rabbit2475 mg/kg estimatedInhalation LC50Rat58740 ppm, 4 hours estimatedOral LD50Rat6263 mg/kg estimated* Estimates for product may be set on additional component data not shown.6263 mg/kg estimated* Estimates for product may be set on additional component data not shown.Serious eye damage/eye Direct contact with eyes may cause temporary irritation.Serious eye damage/eye ritritationProlonged skin contact may cause temporary irritation.Serious eye damage/eye mutagenic or contact with eyes may cause temporary irritation.Direct contact with eyes may cause temporary irritation.Serious eye damage/eye mutagenic or genotoxic.Direct contact with eyes may cause temporary irritation.Serious eye damage/eye mutagenic or genotoxic.Direct contact with eyes may cause temporary irritation.Serious eye damage/eye mutagenic or genotoxic.Direct contact with eyes may cause temporary irritation.Serious eye damage/eye mutagenic or genotoxic.Direct contact with eyes may cause temporary irritation.Germ cell mutagenicityNot dat available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.IARC Monographs. Overall Not resulted.This product is not considered to be a carcinogen bit VRC, ACGIH, NTP, or OSHA.IARC Monographs. Overall Not regulated.Substances (29 CFR 1910.1001.1050) Not regulated.Specific target organ toxicity - Specific target organ toxicity - Specific target organ toxicity - Specific target organ toxicity -N	Product	Species	Test Results
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Skin sensitizationThis product is not expected to cause skin sensitization.Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.CarcinogenicityThis product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.IARC Monographs. Overall Evaluation of Carcinogenicity Light mineral oil (CAS 8042-47-5)3 Not classifiable as to carcinogenicity to humans.US. National Toxicology Program (NTP) Report on Carcinogens Not listed.Not classifiable as to carcinogenicity to humans.US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated.This product is not expected to cause reproductive or developmental effects.Specific target organ toxicity - single exposureNot classified.Specific target organ toxicity - repeated exposureNot classified.May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vol may cause chemical pneumonia, pulmonary injury or death.		Direct contact with eyes ma	ay cause temporary irritation.
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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 Light mineral oil (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans. US. National Toxicology Program (NTP) Report on Carcinogens Not classifiable as to carcinogenicity to humans. US. National Toxicology Program (NTP) Report on Carcinogens Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. 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 May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vol may cause chemical pneumonia, pulmonary injury or death.	Skin sensitization	This product is not expected to cause skin sensitization.	
IARC Monographs. Overall Evaluation of Carcinogenicity Light mineral oil (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans. US. National Toxicology Program (NTP) Report on Carcinogens Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. 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 May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or volumation in preventional preumonia, pulmonary injury or death.	Germ cell mutagenicity		
Light mineral oil (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans. US. National Toxicology Program (NTP) Report on Carcinogens Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Specific target organ toxicity - Not classified. single exposure Specific target organ toxicity - Not classified. repeated exposure Aspiration hazard May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or volume of the specific target organ toxicity or death.	Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
US. National Toxicology Program (NTP) Report on Carcinogens Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Specific target organ toxicity - Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - Not classified. Reproductive toxicity May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or volume and cause chemical pneumonia, pulmonary injury or death.	IARC Monographs. Overa	III Evaluation of Carcinogenic	ity
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. 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 May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or volume and enters airways injury or death.	US. National Toxicology I		
Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.Specific target organ toxicity - single exposureNot classified.Specific target organ toxicity - repeated exposureNot classified.Aspiration hazardMay be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vol may cause chemical pneumonia, pulmonary injury or death.	US. OSHA Specifically Re	egulated Substances (29 CFR	1910.1001-1050)
single exposure Specific target organ toxicity - Not classified. repeated exposure Aspiration hazard May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or volumation of the may cause chemical pneumonia, pulmonary injury or death.	Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
repeated exposureAspiration hazardMay be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or volumation may cause chemical pneumonia, pulmonary injury or death.			
may cause chemical pneumonia, pulmonary injury or death.		- Not classified.	
12 Ecological information	Aspiration hazard		
	12. Ecological informati	ion	

Ecotoxicity

Toxic to aquatic life.

Components		Species	Test Results
Distillates (petroleum), hydro	treated light	(CAS 64742-47-8)	
Aquatic			
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	2.2 mg/l, 96 hours
* Estimates for product may	be based on	additional component data not shown.	
ersistence and degradability	No data is	available on the degradability of this prod	uct.
ioaccumulative potential	No data available.		
obility in soil	No data available.		
ther 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	The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty container can be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not puncture, incinerate or crush. Contents under pressure. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.
Hazardous waste code	Not regulated.
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

DOT		
ι	JN number	UN1950
ι	JN proper shipping name	Aerosols, flammable, Limited Quantity
Т	ransport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	2.1
F	Packing group	Not applicable.
S	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
S	Special provisions	N82
F	Packaging exceptions	306
F	Packaging non bulk	None
F	Packaging bulk	None
ΙΑΤΑ		
ι	JN number	UN1950
ι	JN proper shipping name	Aerosols, flammable, Limited Quantity
	ransport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
F	Packing group	Not applicable.
E	RG Code	10L
S	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
C	Other information	
	Passenger and cargo	Allowed with restrictions.
	aircraft	
	Cargo aircraft only	Allowed with restrictions.
IMDG	ì	
ι	JN number	UN1950
ι	JN proper shipping name	AEROSOLS, LIMITED QUANTITY
Т	ransport hazard class(es)	
	Class	2
	Subsidiary risk	-
F	Packing group	Not applicable.
		••

Environmental hazards

Marine pollutantNo.EmSF-D, S-USpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

15. Regulatory informatio	n		
US federal regulations	All components are on the U.S. EPA TSCA Inventory List. 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. SARA 304 Emergency relea	no notification		
Not regulated.			
US. OSHA Specifically Reg	ulated Substances (29 CFR 1910.1001-1050)		
Not regulated. US EPCRA (SARA Title III) \$	Section 313 - Toxic Chemical: Listed substance		
Not listed. CERCLA Hazardous Substa	ance List (40 CFR 302.4)		
Not listed.			
CERCLA Hazardous Substa	ances: Reportable quantity		
Not listed.			
	ng in the loss of any ingredient at or above its RQ require immediate notification to the National 24-8802) and to your Local Emergency Planning Committee.		
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List		
Not regulated.			
Clean Air Act (CAA) Section	n 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 an	nd Reauthorization Act of 1986 (SARA)		
Section 311/312	Immediate Hazard - Yes		
Hazard categories	Delayed Hazard - No Fire Hazard - Yes		
	Pressure Hazard - Yes		
	Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	No		
US state regulations			
-	hemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.		
	ydrotreated light (CAS 64742-47-8) 3-8)		
	ubstances. CA Department of Justice (California Health and Safety Code Section 11100)		
Not listed.			
US. Massachusetts RTK - S	US. Massachusetts RTK - Substance List		
carbon dioxide (CAS 124			
Light mineral oil (CAS 80 US. New Jersey Worker and)42-47-5) d Community Right-to-Know Act		
Distillates (petroleum), h carbon dioxide (CAS 124	ydrotreated light (CAS 64742-47-8) 1-38-9)		
	nd Community Right-to-Know Law		
carbon dioxide (CAS 124			
Distillates (petroleum), h Light mineral oil (CAS 80	ydrotreated light (CAS 64742-47-8))42-47-5)		

US. Rhode Island RTK

None.

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 51.100(s))	97.3 %	
Consumer products (40 CFR 59, Subpt. C)	Not regulated	
State		
Consumer products	This product is regulated as a Multi-Purpose Lubricant. This product states.	is compliant for use in all 50
VOC content (CA)	0 %	
VOC content (OTC)	0 %	
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) No	
Canada	Non-Domestic Substances List (NDSL) Yes	
China	Inventory of Existing Chemical Substances in China (IECSC) Yes	
Europe	European Inventory of Existing Commercial Chemical No Substances (EINECS)	
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 No (PICCS)	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory Ye	

*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	05-12-2014
Revision date	04-11-2016
Prepared by	Allison Cho
Version #	04
Further information	CRC # 591B-C
HMIS® ratings	Health: 1 Flammability: 3 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 3 Instability: 0
NFPA ratings	

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 professional, or CRC Industries.



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1. Identification		
1.1. Product identifier		
Product Identity	587	
Alternate Names	587	
1.2. Relevant identified uses of the substance	e 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 s	sheet	
Company Name	John Tillman Company	
	1300 W. Artesia Blvd.	
	Compton, CA 90220. USA	
Emergency		
24 hour Emergency Telephone No.	310-764-0110	
Customer Service:	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 Den	SDS R	evision 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 Mari	ne Pollutant: No				
14.6. Special precautions f	or user				
No fu	urther 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

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:

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Chemicals in this	product are covered under the specific State 1	regulations noted:		
Alaska	Designated Toxic and Hazardous Substanc	es- 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 List of Hazardous Substances- None Wisconsin Toxic and Hazardous Substances- No				
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		

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

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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

 \ast % 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:	RESPIRABLE FRACTION:
	5 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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ABC

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: Eves: 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	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);
	(NH4)2SO4: Est: 0.684 (Rapid)
Anaerobic biodegradation probability:	NH4H2PO4 Est: 0.398 (Slow);
	(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

Aquatio roxiony 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 HISTOR	Y: Updated formulation - S	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.

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					
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

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	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.		
<u>1.4. Details of the Supplier of the Sa</u> 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 2. Hazards Identification 	 CHEMTREC 001-800-424-9300 or 001-703-527-3887	

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 Effects, Both Acute and Delayed				
Symptoms	None known.			
4.3 Indication of Any Immediate Medical 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

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.

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8. Exposure Controls/Personal Protection

8.1. Control Parameters

8.

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.
3.3	. 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	Values	Remarks • Method	
рН	No data available		
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		

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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	

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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

I 7631-86-9 I Pseudokirchneriella subcapitata I Brachvdanio rerio I Ceriodaphnia dupla	7631-86-9	Describe line has a single and a surface to	Designed and a second	O a site data ta site at at in
	/631-86-9	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	

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
TDG 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

Proper Shipping Name	Fire extinguishers
Hazard class	2.2
Special Provisions	A19

/

IATA

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

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



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

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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.

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

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier Chemical Name CAS No. Trade Name Product Code

Mixture Mixture CORE SPRAY GLUE M-5575

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Uses Advised Against

Company Identification

Telephone Fax E-Mail (competent person)

Emergency telephone number Emergency Phone No. M-5575 Ivised against Adhesive Product None

Spray Products Corporation P.O. Box 737 Norristown, PA 19404

(610) 277-1010 (610) 277-4390 johnd@sprayproducts.com

Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Label elements Hazard Symbol

> Signal word(s) Hazard Statement(s)

Flam. Aerosol 1; Liquefied gas; Eye Irrit. 2; Skin Irrit. 2; Repr. 2; STOT SE 3; STOT RE 2; Asp. Tox. 1



Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure: Central Nervous System, Route: Inhalation May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing spray. Wear protective gloves/eye protection. Wash hands and exposed skin after use. Use only outdoors or in a well-ventilated area. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
n-Hexane	25 - 30	110-54-3	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Repr. 2; H361 Skin Irrit. 2; H315 STOT SE 3; H336 STOT RE 2; H373
Acetone	25 - 30	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Propane	20 - 30	74-98-6	Flam. Gas 1; H220 Liquefied gas; H280

Additional Information - None

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.
Ingestion	Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed	Aspiration of droplets may cause pulmonary oedema.
Indication of any immediate medical attention and special treatment needed	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media -Unsuitable Extinguishing Media

Special hazards arising from the substance or mixture

Advice for fire-fighters

Extinguish with carbon dioxide, dry chemical, foam or water spray. Do not use water jet.

Highly flammable vapor (flash point below 23°C).

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Avoid breathing spray. Wear protective gloves/eye protection.
Environmental precautions	Prevent liquid entering sewers, basements and work pits.
Methods and material for containment and cleaning up	Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.
Reference to other sections	None
Additional Information	None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Use product in a well- ventilated area only. Avoid breathing spray.
Conditions for safe storage, including any incompatibili	ues
-Storage temperature	Keep in a cool, well ventilated place. Protect from sunlight. Store at temperatures not exceeding 50 °C / 122 °F. Keep container tightly closed.
-Incompatible materials	This product should be stored away from sources of strong heat and oxidizing chemicals. Also avoid: acids, bases, reducing agents, peroxides, amines, ammonia, chlorine and halogens.
Specific end use(s)	Adhesive Product

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

		(8hr	TWA)	(\$1	EL)	
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Hexane	110-54-3	500 ppm	50 ppm*	(<u>2417.22</u>)		*Skin
Acetone	67-64-1	1000	500		750	^NIC
Propane	74-98-6	1000 ppm	Aspyx.*		122222	#

^NIC = Notice of Intended Changes (ACGIH®); *Assure minimum oxygen content of work atmosphere.

Recommended monitoring method

NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C); NIOSH 1300 (Ketones I).

Exposure controls

Appropriate engineering controls

Provide adequate ventilation to ensure that the occupational exposure

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limit is not exceeded.

CORE SPRAY GLUE

Personal protection equipment

Eye/face protection



Skin protection (Hand protection/ Other)



Respiratory protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Not normally required. Use gloves with insulation for thermal

Thermal hazards

Environmental Exposure Controls

None known

protection, when needed.

Aerosol spray

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Color. Odor Odor Threshold (ppm) pH (Value) Melting Point (°C) / Freezing Point (°C) Boiling point/boiling range (°C): Flash Point (°C) Evaporation Rate Flammability (solid, gas) Explosive Limit Ranges Vapor pressure (Pascal) Vapor Density (Air=1) Density (g/ml) Solubility (Water) Solubility (Other) Partition Coefficient (n-Octanol/water) Auto Ignition Point (°C) Decomposition Temperature (°C) Kinematic Viscosity cSt Explosive properties Oxidizing properties Other information

Colorless Not available Not available Not available Not available Not available -104 (Propane) Not available Extremely flammable aerosol. 2.1% - 9.5% v/v (Propane) ca. 95 x 104 (Propane) ca. 1.56 @ 0°C (Propane) Not available Not available Not available Not available 450 (Propane) Not available <20.5 @ 40°C Not explosive. Not oxidizing. Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.		
Chemical stability	Stable.		
Possibility of hazardous reactions	None anticipated.		
Conditions to avoid	Avoid contact with heat and ignition sources.		
Incompatible materials	This product should be stored away from sources of strong heat and oxidizing chemicals. Also avoid: acids, bases, reducing agents, peroxides, amines, ammonia, chlorine and halogens.		
Hazardous decomposition product(s)	Forms carbon oxides under fire conditions.		

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SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

n-Hexane (CAS No. 110-54-3):

Acute toxicity	Oral: LD50 ≈16 g/kg-bw (May be fatal if swallowed and enters airways.)
	Dermal: LD50 >2 g/kg-bw. rabbit
	Inhalation: LC50 > 17600 mg/m3 (Vapor), 24-hr. rat (May cause drowsiness or dizziness.)
Irritation/Corrosivity	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	LOAEL: 37973 mg/kg (101 days, oral, rat, CNS effects)
	NOAEL: 1135 mg/kg (101 days, oral, rat, CNS effects)
	NOAEC: 1760 mg/m3 (90 day, inhal., female mice, nasal lesions) LOAEC: 3000 ppm (12 hr a day for 16 weeks, inhal., rat, CNS effects
Carcinogenicity (By analogy with similar materials)	NOEL: 31736 mg/m3 (2 years, inhal. Oncogenic effects)

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.
Mutagenicity		There is no	evidence of mutagenic p	otential.
Reproductive toxicity			animals have shown that r productive effects.	epeated exposures produce
cetone (CAS No. 67-64-1	<u>1):</u>			
Acute toxicity		Dermal LD Inhalation	= 5800 mg/kg (rat) 50 >15800 mg/kg (rabbit) LC50 76 mg/L (4 hour(s)) s and dizziness.	(rat) - Vapours may cause
Irritation / Corrosivity		Causes se dryness or		ted exposure may cause skin
Sensitisation		It is not a s	kin sensitiser.	
Repeated dose toxicity	(EL = 900 mg/kg/day (rat) (NOAEL ≥ 19,000 ppm (rat	3 F 20 F 20 F 20 F 20
Carcinogenicity		It is unlikel	y to present a carcinogeni	c hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH		
No.	No.	No.	No.	No.		
lutagenicity		Negative				
oxicity for reprodu	ction	Negative				
ther information		None known.				

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

n-Hexane (CAS# 110-54-3):

Short term

Long Term

LC50 (96 hour): >1000 µg/L (*Oryzias latipes*) LC50 (48 hour): 45 mmol/m3 (*Daphnia magna*, mortality) EC50 (96 hour): 2.66% (*C. pyreniodosa*) NOELR (28 days) 2.8 mg/l (*Fish*) QSAR NOELR (21 days): 4.88 mg/l (*Daphnia magna*) QSAR NOEL (96 hour) 2.077 mg/l (Algae) QSAR

CORE SPRAY GLUE

Acetone (CAS No. 67-64-1):

Short term

LC50 (96 hour): 5,540 mg/l (Rainbow Trout (Oncorhynchus mykiss)) LC50 (96 hour): 8,300 mg/l (Bluegill Sunfish (Lepomis macrochirus)) LC50 (48 hour(s)): 12,600 - 12,700 mg/l (Daphnia magna) EC50 (14 d): 3,020 mg/l (Algae (Chlorella pyrenoidosa) EC50 (15 min): 14,500 mg/l (Bacteria (Photobacterium phosphoreum) Not available.

Readily biodegradable. Not available. Not available. Not available. None known.

Long Term

Persistence and degradability **Bioaccumulative potential** Mobility in soil Results of PBT and vPvB assessment Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

	U.S. DOT	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
n-Hexane	110-54-3	~28	5000
Acetone	67-64-1	~27	5000

SARA 311/312 - Hazard Categories:

K Fire

Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
n-Hexane	110-54-3	~28

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

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CORE SPRAY GLUE

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
Benzene*	71-43-2	Cancer; Developmental
Methanol*	67-56-1	Developmental

*Trace to none

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16. Date of preparation: March 7, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H220: Extremely flammable gas.
- H222: Extremely flammable aerosol.
- H225: Highly flammable liquid and vapor.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H361: Suspected of damaging fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.

Training advice: None.

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.

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 4.0 SDS Revision Date: 1/23/2015 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: DEOXIT® D-SERIES, 5% SPRAY, (P/N D5S-6), 142 grams, VOC Compliant 1.2 Chemical Name NA 1.3 Synonyms DeoxIT® D Series, 5% Spray; PN D5S-6 1.4 Trade Names: DeoxIT® D Series, 5% Spray; PN D5S-6 1.5 Product Uses & Restrictions: Clean, deoxidize & improve electrical contacts & connectors 1.6 Distributor's Name: CAIG Laboratories, Inc. 12200 Thatcher Court, Poway, CA 92064-6876 USA Distributor's Address: 1.7 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN XXXXX) Business Phone / Fax: 1.9 +1 (800) 224-4123 2. HAZARDS IDENTIFICATION This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS 2.1 Hazard Identification: according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). DANGER! PRESSURIZED CONATINER; MAY BURST IF HEATED. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. **Classification: Aerosols 1** Hazard Statements (H): H229 – Pressurized container; may burst if heated. H304 – May be fatal if swallowed and enters airways. Precautionary Statements (P): P210 - Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. P251 - Do not pierce or burn, even after useP301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. P332+P313 - If skin irritation occurs: get medical advice/attention. P405 - Store locked up. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-STEL CHEMICAL NAME(S) TLV PEL STEL IDLH OTHER CAS No. RTECS No. EINECS No % TWA STEL PEAK 64742-88-7 XS5250000 265-191-7 40-70 100 NA 100 NF NF NA NA NA PETROLEUM NAPTHA Asp. Tox. 1; H304 75-37-6 K14100000 200-866-1 10-30 1000 NA 1000 NF NF NA NA NA SKIN DIFLUORETHANE (R-152A) Flam. Gas 1; Liq. Gas;H220, H280 NA NA NF NF **PROPRIETARY – TRADE SECRET** 3-7 NF NA NA NA DEOXIT® D-SERIES, D100L 4. FIRST AID MEASURES If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk 4.1 First Aid: Ingestion: IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm Eyes: water for at least 15 minutes lifting upper and lower lids, occasionally. If irritation persist repeat flushing. Get medical attention. Skin: Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Treat for frostbite if necessary, be gently warming affected area. If irritation, redness or swelling persists, contact a physician immediately. Remove victim to fresh air at once. If breathing difficult, administer oxygen. If breathing stops give Inhalation: artificial respiration. Keep person warm, quiet and get medical attention. 4.2 Effects of Exposure: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Ingestion: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and Eyes: watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Inhalation: None expected. 43 Symptoms of Overexposure: Nausea, intestinal discomfort, vomiting and/or diarrhea. Ingestion: Overexposure in eyes may cause redness, itching and watering. Eyes: Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite like symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals. 4.4 Acute Health Effects: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Frostbite like effect to skin. 75



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 4.0

SDS Revision Date: 1/23/2015

		4. FIRS	T AIF			ES of	ont'd					
4.5	Chronic Health Effects:	Overexposure may trigger as respiratory hypersensitivity. F	thma-lił	ke symp	otoms in s	ome sensi		uals. N	/lay also	induce	skin sens	sitization and
4.6	Target Organs:	Eyes, Skin, Respiratory Syste		allergi	c uernalli	5.						
4.7	Medical Conditions	Pre-existing dermatitis, other		conditio	ns, and d	lisorders o	f the HE	ALTH				1
	Aggravated by Exposure:	target organs (eyes, skin, and							BILITY			2
							PH	YSICA	L HAZ	ARDS		0
											ENT	B
							EYE		SKIN			
		5 FIR	FFIC	знті	NG MF	ASUR	FS					
5.1	Fire & Explosion Hazards:	Level 3 Aerosol (NFPA 30B). containers to prevent possib aerosols are bursting, stay However, if involved in a fire, (e.g., CO, Hydrogen Fluoride)	Aeros le burs clear ι this pro	ols may ting. A until bu	v burst at t verosols m rsting is v	emperatur nay be pro complete.	es above 1 bjectile haz This pro	ards wl duct is	hen burs not fla	sting. I mmable	f	
5.2	Extinguishing Methods:	Water, Foam, CO ₂ , Dry Chem	ical. U	se wate	er spray to	cool unop	ened conta	iners.				2
5.3	Firefighting Procedures:	Fight fires as for surrounding to breathing apparatus (pressur- after the fire is out. Use wate fire upwind. Avoid spraying v Prevent runoff from fire contr any natural waterway. Firefig pressure self-contained breat decomposition products and c	e-dema er spray water d ol or di ghters r hing ap	and) and y to coo irectly i ilution f must us oparatus	d full prote ol fire-expo nto storag rom enteri se full bun s to protec	ective gear osed surface e containe ing sewers iker gear in	r. Keep ca ces and to ers because s, drains, d ncluding NI	ontaine protect of dar rinking OSH-a	rs cool of personanger of b water so pproved	until we al. Figh ooil-over upply, o positive	II tt r r ə	0
		6. ACCIDE	NTA		ELEAS	E MEA	SURES	6				
6.1	Spills:	Before cleaning any spill or Equipment. Plastic or rubber <u>Small Spills</u> : Wear appropriat material such as vermiculite water or a material such as plastic brooms, shovels, dust <u>Large Spills</u> : Keep incompat or release. Isolate immediate done with minimal risk. Wear	r gloves te prote or sanc "speedy pans) a ible ma e hazarc	s, respir ective e d to soa y dry" to nd plac terials (d area a	ator, eye p quipment ak up the p o soak up te into a pla (e.g., organ and keep u	protection a including g product an material. astic conta nics such a unauthorize	and apron r gloves and id place int Sweep up niner or plas as oil) away ed personne	may be protect o a cor materi stic liner y from s el out o	requirective eyeventainer for al using within a spill. Staff area. S	I for clea vear. U or later non-sp another ay upwin Stop spi	an-up of la lse a non- disposal. arking ma container. nd and aw Il or releas	arge spills. combustible Do not use tterials (e.g., vay from spill se if it can be
		7. HANDLIN	IG &	STO	RAGE	INFOR	ΜΔΤΙΟ	N				
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke container(s). When used as contact is possible. Wash uni	when h intende	nandling ed, no a	g this proc additional	duct. Cor protective	ntents unde equipment	er press is nec	sure. H essary.	landle a Use ch	as to avoid nemical go	d puncturing oggles if eye
7.2	Storage & Handling:	Use and store in a cool, dry sunlight. Avoid temperatures damage. To avoid unintention	, well-v above	entilate 120 °F.	d location Keep aw	(e.g., loca ay from ind	al exhaust compatible	ventilat substar	ion, fan nces. Pr	s) away rotect co	from hea ontainers f	at and direct rom physical
7.3	Special Precautions:	Clean all spills promptly.										
		8. EXPOSURE CO	NTR	OLS	& PER	SONA	L PRO	ГЕСТ	ION			
8.1	Exposure Limits:		AC			NOHSC	1		OSHA	T	OTHER	
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
		PETROLEUM NAPTHA DIFLUORETHANE (R-152A)	100	NA	100	NF NF	NF	NA NA	NA NA	NA NA	SKIN	
		DEOXIT® D-SERIES, D100L	1000 NA	NA NA	1000 NF	NF	NF NF	15	NA	NA	SKIN	
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fa exhaust ventilation to effective product. Ensure appropriate of	ns) or i /ely rer	natural nove a	ventilatior nd preven	n is sufficient nt buildup	ent when the the of vapors	his proo or mist	duct is i generat	n use. ted fron	n the han	dling of this
8.3	Respiratory Protection:	No special respiratory protect instances where dusts of this protection authorized by 29 (CAS Standard Z94.4-93 and Australia.	produc CFR §1 applica	t are ge 1910.13 Ible sta	enerated, a 4, applica ndards of	and respira ble U.S. S Canadian	tory protec State regula Provinces,	tion is r ations, EC me	needed, or the C ember S	use only Canadiai tates, o	y n r	
8.4	Eye Protection:	Avoid eye contact. None req when handling or using large					ise. Safety	glasse	es could	be used		



12.3

Effects on Aquatic Life:

to overexposed aquatic life.

SAFETY DATA SHEET

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8. EXPOSURE CONTROLS & PERSONAL PROTECTION				
8.5	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber, nitrile or impervious plastic gloves.		
8.6	Body Protection:	No apron required when handling small quantities. When handling large quantities (e.g., \ge 5 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.		

		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Light red aerosol spray/mist
9.2	Odor:	Ethereal hydrocarbon odor
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	171.1-204 ℃ @ 760 mm Hg
9.7	Flashpoint:	48.8 – 54.4°C (120 - 130 °F)
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	4.9 (air = 1.0)
9.11	Relative Density:	0.75
9.12	Solubility:	Not soluble in water
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	10.0 cPs
9.17	Other Information:	VOC 588 g/L
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
10.1	Hazardous Decomposition	
-	Products:	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat, incompatible substances and direct sunlight.
10.5	Incompatible Substances:	Avoid extreme heat and ignition sources. Store away from oxidizers.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product.
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.
11.4	Chronic Toxicity:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).
11.5	Suspected Carcinogen:	No.
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.
	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 cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
11.7	Irritancy of Product:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.
11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	There is no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.2	Effocts on Aquatic Life:	

There are no specific data available for this product; however, very large releases of this product may be harmful or fatal



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		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous was according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and fede regulations. Dispose of in accordance with federal, state and local regulations.
3.2	Special Considerations:	California Waste Code: 331
		14. TRANSPORTATION INFORMATION
		nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additior e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
4.1	49 CFR (GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or
		CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) – until 12/31/2020
4.2	IATA (AIR):	UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL \leq 0.5 L); or ID8000, CONSUMER COMMODITY, ORM-D (IP VOL \leq 0.5 L)
4.3	IMDG (OCN):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)
14.4	TDGR (Canadian GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or MARK PACKAGE "LIMITED QUANTITY," "LTD QTY," or "QUANT LTÉE" or "QUANTITÉ LIMITÉE"
14.5	ADR/RID (EU):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)
14.6	SCT (MEXICO):	UN1950, AEROSOLES, 2.1 (CANTIDAD LIMITADA, IP VOL ≤ 1.0 L)
14.7	ADGR (AUS):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity (RQ):	NA
15.5	Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G, (Cosmetics).
15.6	Other Canadian Regulations:	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. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class B5 (Flammable Aerosol)
15.7	State Regulatory Information:	Difluoroethane can be found on the following state criteria lists: MA and NJ. No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substance List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (NJ), New York Hazardous Substances List (NY), Pennsylvar Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: <u>Petroleum Naphtha</u> : Flammable, Harmful (F, Xn). <u>Risk Phrases</u> (R): 10-65 – Flammable. Harmful: may cause lung damage if swallowed. <u>Safety Phrases</u> (S): 2-23-24-62 – Keep away from children. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this MSDS or the container label. WARNING! Flammable aerosol. Colorless, volatile liquid with ethereal and faint sweetish odor. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause asphyxiation in confined spaces. MAL-KODE (DK): 1-3



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		16. OTHER INFO	ORMATION
16.1	Other Information:	ENTERS AIRWAYS. Use only as directed. Ke lung damage if swallowed. Avoid contact with	Y BURST IF HEATED. MAY BE FATAL IF SWALLOWED AND ep out of reach of children. Do not breathe fumes/spray. May cause skin. In case of accident or if you feel unwell seek medical advice skin irritation occurs: get medical advice/attention. KEEP LOCKED UP
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for Laboratories, Inc.'s knowledge, the information accuracy, suitability or completeness is not guar provided. The information contained herein rela	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & CAIG contained herein is reliable and accurate as of this date; however, anteed and no warranties of any type, either expressed or implied, are tes only to the specific product(s). If this product(s) is combined with be considered. Data may be changed from time to time. Be sure to
16.4	Prepared for:	CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax http://www.caig.com/	EABORATORIES, INC.
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate Dangerous Goods Training & Consulting



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No. Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
C	Ceiling Limit
ES	Exposure Standard (Australia)
IDLH	Immediately Dangerous to Life and Health
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

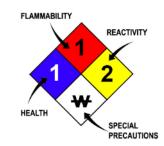
PERSONAL PROTECTION RATINGS:

Α			G				
в	0		Н	0		H H H	
С	0		I				
D	B		J			Î	
Е			K	E			
F	8		X	Consult y special ha			
Sa	afety Glasse	es Splash Goggles		e Shield & tive Eyewe	ar	Glove	s
	Boots	Synthetic Apron		tive Clothiı Full Suit	ng E	Oust Resp	pirator
						1	
Full I	Face Respi	rator Dust & Vapor Half- Mask Respirator	-	ull Face espirator	Ai	rline Hoo or SCI	
OTH	ER STAN	DARD ABBREVIATION	S:				
	ML	Maximum Limit					
mg/m3 milligrams per cubic meter							
	NA	Not Available					
	ND	Not Determined					
	NE	Not Established					
	NF NR	Not Found No Results					
	ppm	parts per million					
-	SCBA	Self-Contained Breathing A	oparatus				
1	0004	Son Sontanioa Breathing P	ppuluuu				

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:							
Autoignition Minimum temperature required to initiate combustion in air with no other							
Temperature	source of ignition						
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will						
	explode or ignite in the presence of an ignition source						
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will						
	explode or ignite in the presence of an ignition source						

HAZARD RATINGS: 0 Minimal Hazard 1 Slight Hazard 2 Moderate Hazard 3 Severe Hazard 4 Extreme Hazard ACD Acidic ALK Alkaline COR Corrosive W Use No Water OX Oxidizer TREFOIL Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{lo} , LD _{lo} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

NEODE/III	
WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NOHSC	National Occupational Health and Safety Commission (Australia)
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

nonar									
\bigcirc				Ð	۲				
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F		
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive		

EC (67/548/EEC) INFORMATION:

			¥	8	® X	×	×	
С	E	F	Ν	0	т	Xi	Xn	
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful	

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\:		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards SDS Revision: 5.0 SDS Revision Date: 10/08/2013 1. PRODUCT IDENTIFICATION 1.1 Product Name: DEOXIT® D-SERIES, D5L-A, 5% LIQUID 1.2 Chemical Nan See ingredients listed in section 3 1.3 Synonyms DeoxIT®, D5L-25C-A, 5% Liquid, 25 ml; DeoxIT®, D5L-4-A, 5% Liquid, 118 ml; DeoxIT®, D5L-12-A, 5% Liquid, 354 ml; DeoxIT®, D5L-32-A, 5% Liquid, 944 ml; DeoxIT[®], D5L-5G-A, 5% Liquid, 30 L; DeoxIT[®], D5L-55G-A, 5% Liquid, 55 gallon Trade Names 1.4 DeoxIT® D-Series, D5L-A, 5% Liquid 1.5 Product Use: Clean, deoxidize & improve electrical contacts & connectors 1.6 Manufacturer's No CAIG Laboratories, Inc. 1.7 Manufacturer's Address: 12200 Thatcher Court, Poway, CA 92064-6876 USA 1.8 Emergency Phone CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-3887 1.9 Business Phone: +1 (800)-224-4123 2. HAZARD IDENTIFICATION 2.1 Hazard Identificatio This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008(2004) and ADG Code (Australia). WARNING! COMBUSTIBLE LIQUID. MAY CAUSE AN ALLERGIC SKIN REACTION. Colorless, volatile liquid with ethereal and faint sweetish odor. Overexposure may cause dizziness and loss of concentration. Hazard Statements (H): H227 – Combustible liquid. H317 - May cause an allergic skin reaction. Precautionary Statements (P): P210 - Keep away from flames and hot surfaces - No Smoking. P280 - Wear protective gloves and eye protection. P302 + P352 – IF ON SKIN – Wash with plenty of soap and water. P312 – Call a Poison Control Center or doctor/physician if you feel unwell. P333 + P313 - If skin irritation or rash occurs, get medical advise/attention. P321 – Refer to section 4 of this Safety Data Sheet (First Aid). P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P370 + P378 – In case of fire: Use CO2, alcohol foam, dry chemical, water foa for extinction. P501 – Dispose of contents/container through licensed treatment, storage or disposal facility. 22 Routes of Entry: Inhalation: YES Absorption: YES YES Ingestion: 2.3 Effects of Exposure: Mild to moderate irritation. EYES: SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). INGESTION: Gastrointestinal irritation and central nervous system depression. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract. 2.4 Symptoms of Overexposure **FYFS** Mild irritation, redness, and watering. Contact dermatitis, characterized by localized red or puffy dry skin and itching. SKIN: INGESTION: Nausea, vomiting, and diarrhea. INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination. 2.5 Acute Health Effects: INGESTION: Gastrointestinal irritation and central nervous system depression. EYES: Mild to moderate irritation. Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (e.g., localized SKIN: redness and/or rash). INGESTION: Gastrointestinal irritation and central nervous system depression. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract. Chronic Health Effects: 2.6 EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (e.g., localized redness and/or rash). Gastrointestinal irritation and central nervous system depression. INGESTION. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract. 2.7 Taraet Oraans Eyes, skin and respiratory system.

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.



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Standards

SDS Revision: 5.0

SDS Revision Date: 10/08/2013

		3. C	OMPOSITIO	ON & INGR	EDIENT	INFO	RMA [·]	ΓΙΟΝ						
	EXPOSURE LIMITS IN AIR (I				mg/m	3)								
						AC	GIH		NOHSC	2		OSHA		
						pp	m		ppm			ppm		OTHER
					A (ES-	ES-	ES-				
DETRO		CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
PEIRC	DLEUM NAPHTHA	64742-88-7	XS5250000	265-191-7	60-100	100	NE	100	NE	NE	NA	NE	NE	
METH	YL NONAFLUOROBUTYL	163702-07-6	NA	NA	10-30	750	NA	NF	NA	NA	NE	NA	NA	SKIN
METH ETHER	YL NONAFLUOROISOBUTY	^{(L} 163702-08-7	NA	NA	10-30	750	NA	NF	NA	NA	NE	NA	NA	SKIN
Deox	IT® D100L	TRADE SECRE	T		1-5	NA	NA	NA	NA	NA	15	NA	NA	
			1	FIRST AID N	A E A SI I E	EC								
4.1	First Aid:		4.	FIKSI AID N	NEAJUR	ES								
	EYES: Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention. SKIN: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. INGESTION: Drink plenty of water. If irritation persists, contact a physician. INHALATION: Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention.							prompt						
4.2	Medical Conditions Aggravated by B	xposure:						HEAL	тн					1
	None reported by the r	nanufacturer.						FLAN						2
							<mark>/</mark>						_	
								PHYS		HAZ	ARDS	5		0
								PRO	ECTI	VE EG	QUIPA	ΛENT		В
								EYES	5	SKIN				
			5. FIF	REFIGHTING	S MEAS	URES								
5.1	Flashpoint & Method: 48.8-54.4 °C (120-130 °	F)												
5.2	Autoignition Temperature:													
5.3	Flammability Limits:		Lower Explo	osive Limit (LEL):	NA		Upper	Explo	sive Lin	nit (UEI	L):	N	A
5.4	Fire & Explosion Hazards: Carbon dioxide, carbo	n monoxide, hyd	rocarbons.											
5.5	Extinguishing Methods:												2	
5.6	CO ₂ , Alcohol foam, Dry Firefighting Procedures:	Chemical, Wate	er rog											0
0.0	Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Use a water spray to cool containers involved in fire. Do not use direct water stream. Container storage areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. Keep containers cool until well after the fire is out to prevent rupture. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway.													
				DENTAL REL		FVEN	DEC							
6.1	Spills:		0. ACCIL			ILAJU	KLJ							
	Secure spill area and deny entry to all unprotected individuals. Individuals involved in the cleanup should wear appropriate personal protective equipment. Area may become slippery. Absorb product onto porous material, such as sand, clay, diatomaceous earth or commercial absorbent material. Place into leak-proof, U.S. DOT-approved containers. If necessary, cover all drains and dike well ahead of the spill to prevent runoff into sewers, drains, and all waterways. Contact appropriate local or provincial authorities for assistance and/or reporting requirements.													



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Prend		WHMIS, 2001/58/EC & 1272/2008/EC Standards	SDS Revision: 5.0	SDS Revision Date: 10/08/2013						
riepu		WHMIS, 2001/36/EC & 12/2/2006/EC Standards	3D3 REVISION, 3.0	3D3 Revision Date. 10/08/2013						
	7. HANDLING & STORAGE INFORMATION									
7.1	Work & Hygiene Practices: Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact.									
7.2	Storage & Handling: Store at temperatures between 59-95 °F (15-35 °C) in a dry, well-ventilated location. Keep away from heat, sparks, open flame, and									
7.0		Normal shelf-life: 2-3 years.	ennialed location. Keep awa	ay from hear, sparks, open hame, and						
7.3		ontain flammable vapors. Do not cut, drill,	arind, weld or perform similar	operations on or near containers.						
			3							
	8. EXPOSURE CONTROLS & PERSONAL PROTECTION									
8.1	Ventilation & Engineering Controls: Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).									
8.2	Respiratory Protection:	od with adoquato vontilation								
8.3	Eye Protection:	ed with adequate ventilation.								
8.4	Wear safety glasses with Hand Protection:	side shields (ANSI Z87) under normal use o	conditions.							
0.4		ormal conditions of use. However, may ca astic gloves.	use skin irritation in some sen	sitive individuals. In such cases, wear						
8.5	Body Protection:									
	Use as necessary to pre-	vent skin contact.								
		9. PHYSICAL & CHEN								
9.1	Density:	0.75								
9.2	Boiling Point:	171.1– 204 °C @ 760 mm Hg								
9.3	Melting Point:	NA								
9.4	Evaporation Rate:	0.11 (n-Butyl Acetate = 1.0)								
9.5	Vapor Pressure:	35 psig @ 20 °C, 50 psig @ 50 °C								
9.6	Molecular Weight:	NA								
9.7	Appearance & Color:	Light red liquid								
9.8	Odor Threshold:	Ethereal/hydrocarbon odor								
9.9	Solubility:	Not soluble in water								
9.10	рН	ND								
9.11	Viscosity:	10.0 cPs								
9.12	VOC (grams/liters)	588 g/L								
9.13	Other Information:	NA								
		10. STABILITY &	PEACTIVITY							
10.1	Stability:									
	Stable under normal conditions of use (see section 7).									
10.2										
10.3	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution. Hazardous Polymerization:									
	Will not occur.									
10.4	Conditions to Avoid:									
	heavily trafficked areas	en flames, sparks, high heat (>100 °F) or a	other heat sources, and prox	imity to incompatible substances and						
10.5	Incompatible Substances:									
	Strong oxidizers.									



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards

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SDS Revision Date: 10/08/2013

	11. TOXICOLOGICAL INFORMATION							
11.1		sted on animals to obtain toxicological data. There are toxicology data for the one scientific literature. These data have not been presented in this document.	components of this					
11.2	Acute Toxicity: See section 3.5							
11.3	Chronic Toxicity:							
11.4	See section 3.6 Suspected Carcinogen:							
	NE							
11.5		produce reproductive toxicity in humans.						
	Mutagenicity: Embryotoxicity:	This product is not reported to produce mutagenic effects in humans.						
	Teratogenicity:	This product is not reported to produce embryotoxic effects in humans.						
	Reproductive Toxicity:	This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans.						
11.6	Irritancy of Product:							
11.7	See Section 2.3 Biological Exposure Indices:							
	NE							
11.8	Physician Recommendations: Treat symptomatically.							
		12. ECOLOGICAL INFORMATION						
12.1	Environmental Stability: This product will slowly volatile	e from soil. Components of this product will slowly decompose into organic compo	unds.					
12.2	Effects on Plants & Animals: There is no specific data available for this product.							
12.3	Effects on Aquatic Life:							
	Releases of large volumes of this product are expected to be harmful or fatal to overexposed aquatic life.							
	13. DISPOSAL CONSIDERATIONS							
13.1								
13.2	Special Considerations: EPA Waste Code: D001 (chard							
		14. TRANSPORTATION INFORMATION						
		proper shipping name, hazard class & division, packing group) is shown for each moo may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	le of transportation.					
14.1	49 CFR (GND): NOT REGULATED PER 49 CFR 1	73.150(f)						
14.2		(< 500 m)						
	ID8000 CONSUMER COMMOD UN1268, PETROLEUM DISTILLAT	(ES, N.O.S., 3, III (IP VOL > 500 ml)						
14.3	IMDG (OCN):							
		IES, N.O.S., 3, III, LTD QTY (IP VOL ≤ 5.0 L)	^					
14.4	TDGR (Canadian GND):	ies, N.O.S., 3, III (IP VOL > 5.0 L)						
	MARK PACKAGE "LIMITED QU	ANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (IP VOL ≤ 5.0 L) IES, N.O.S., 3, III (IP VOL > 5.0 L)	FLAMMABLE LIQUID					
14.5	ADR/RID (EU):		3 mouth on 10					
		ES, N.O.S., 3, III, LTD QTY (IP VOL ≤ 5.0 L)						
144		ES, N.O.S., 3, III (IP VOL > 5.0 L)						
14.6	SCT (MEX): UN1268, DESTILADO DEL PETRO	DLEO, N.E.P., 3, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)						
		DLEO, N.E.P., 3, III (IP VOL > 5.0 L)						
14.7	ADG5R (EU):							
		ES, N.O.S., 3, III, LTD QTY (IP VOL ≤ 5.0 L) ES, N.O.S., 3, III (IP VOL > 5.0 L)						
	STATES I ENOLEON DISTILLAT							



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards

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	15. REGULATORY INFORMATION								
15.1	SARA Reporting Requirements:								
	NA								
15.2	SARA Threshold Planning Quantity: NA								
15.3	TSCA Inventory Status:								
	All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.								
15.4	CERCLA Reportable Quantity (RQ):								
	NA								
15.5	Other Federal Requirements:								
	NA								
15.6	Other Canadian Regulations		\sim \sim \sim						
	the MSDS contains all of the information DSL/NDSL. None of the components of the	ng to the hazard criteria of the Controlled Products Regulations (CPR) and required by the CPR. The components of this product are listed on the his product are listed on the Priorities Substances List.							
15.7	State Regulatory Information: The primary component of this product is not listed on the following state lists: California OSHA; California Proposition 65; Massachusetts Right to Know List of Chemicals; New Jersey Right to Know List 8:59 Appendix A; Pennsylvania Hazardous Substances List 34 323 Appendix A; Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; and Florida Toxic Substances List.								
15.8	 67/548/EEC (European Union) Requirements: The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: Petroleum Naphtha: Flammable, Harmful (F, Xn). <u>Risk Phrases</u> (R): 10-65 – Flammable. Harmful: may cause lung damage if swallowed. <u>Safety Phrases</u> (S): 2-23-24-62 – Keep away from children. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this MSDS or the container label. WARNING! Flammable aerosol. Colorless, volatile liquid with ethereal and faint sweetish odor. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause asphyxiation in confined spaces. 								
		16. OTHER INFORMATION							
16.1	Other Information:								
	NA								
16.2	Terms & Definitions:								
	See last page of this MSDS.								
16.3									
16.4	Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax http://www.caig.com/	CANGE LABORATORIES, INC.							
16.5	Prepared by: ShipMate, Inc. P.O. Box 787 780 Buckaroo Trail Suite D Sisters, OR 97759 Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate Dangerous Goods Training & Consulting							



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards

SDS Revision: 5.0

HAZARD RATINGS:

SDS Revision Date: 10/08/2013

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No. Chemical Abstract Service Number						
EXPOSURE LIMITS IN AIR:						
ACGIH American Conference on Governmental Industrial Hygienists						
TLV	Threshold Limit Value					
	U.S. Occupational Safety and Health Administration					

OSHA	U.S. Occupational Safety and Health Administration				
PEL	Permissible Exposure Limit				
IDLH	IDLH Immediately Dangerous to Life and Health				

FIRST AID MEASURES:

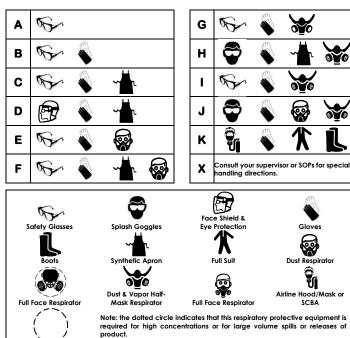
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped						
	receives manual chest compressions and breathing to circulate blood and provide oxvaen to the body.						
	oxygenio ne body.						

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

NA	Not Available				
NR	No Results				
NE	NE Not Established				
ND	ND Not Determined				
ML	Maximum Limit				
SCBA	Self-Contained Breathing Apparatus				

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY	FLAMMABILITY LIMITS IN AIR:						
Autoignition	Autoignition Minimum temperature required to initiate combustion in air with no other source of ignition						
Temperature							
LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode a							
	ignite in the presence of an ignition source						
UEL	UEL Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode						
	or ignite in the presence of an ignition source						

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
¥	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC 50	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	TC Transport Canada				
EPA	EPA U.S. Environmental Protection Agency				
DSL	DSL Canadian Domestic Substance List				
NDSL	NDSL Canadian Non-Domestic Substance List				
PSL	PSL Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\oslash	۲	۲		(Ţ)	(R
Α	В	С	D1	D2	D3	Е	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

		×	¥		ф	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond					E
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment

PRECAUTIONS



1. Identification

Product identifier	Dykem® Hi-Spot Blue	
Other means of identification		
Part Number	83307	
Synonyms	FORMULA CODE(S): * 8716	
Recommended use	Cleaner	
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	Carcinogenicity
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	



Signal word	Danger
Hazard statement	May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

Category 1B

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Petrolatum		8009-03-8	30 - 40
Oleic Acid		112-80-1	20 - 30
Distillates Petroleum Hydrotreated Med		64742-46-7	10 - 20
Solvent Blue 35		17354-14-2	5 - 10
Amides, Tallow, Hydrogenated		61790-31-6	1 - 5
Fatty Acids, Tallow, Hydrogenated		61790-38-3	1 - 5
Astarial name, Dukam@ Lli Snat Dhua			050.11

Material name: Dykem® Hi-Spot Blue

83307 Version #: 01 Issue date: 02-25-2018

Chemical name	Common name and synonyms	CAS number	%	
Hydroteated Microcrystalline wa	x	64742-60-5	1 - 5	
Paraffin Wax		8002-74-2	0.1 - 1	
4. First-aid measures				
Inhalation	Move to fresh air. Call a physician if symptom	ns develop or persist.		
Skin contact	Wash off with soap and water. Get medical a	ttention if irritation develops a	nd persists.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.			
Ingestion	Rinse mouth. Get medical attention if sympto	ms 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	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.			
General information	IF exposed or concerned: Get medical advice/attention. 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 powder. Carbon dioxide (CO2).			
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e 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 meas	sures			
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothing authorities should be advised if significant sp see section 8 of the SDS.	g during clean-up. Ensure ade	quate ventilation. Loc	
Methods and materials for	Use water spray to reduce vapors or divert va	apor cloud drift.		
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 materia remove residual contamination.	I (e.g. cloth, fleece). Clean sur	face thoroughly to	
	Never return spills to original containers for recontainers. For waste disposal, see section 1		covered, labeled	
Environmental precautions	Avoid discharge into drains, water courses or	r onto the ground.		
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. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.			
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materia (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.

US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	Form
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
Biological limit values	No biological exposure limits noted for the ingred	lient(s).	
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.		
Individual protection measures,	such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggle	s).	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves.		
Other	Use of an impervious apron is recommended.		
Respiratory protection	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.		
Thermal hazards	Wear appropriate thermal protective clothing, wh	en necessary.	
General hygiene considerations	Observe any medical surveillance requirements. measures, such as washing after handling the m smoking. Routinely wash work clothing and prot	aterial and before	eating, drinking, and/or

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Paste.
Color	Blue.
Odor	Slight petroleum odor.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 200.0 °F (> 93.3 °C)
Evaporation rate	> 1 (BuAc = 1)
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 (air = 1)
Relative density	0.95
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.
VOC	0 %
10. Stability and reactivity	У

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 flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.		
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	Not known.		
Components	Species	Test Results	
Distillates Petroleum Hydrotreated	I Med (CAS 64742-46-7)		
<u>Acute</u> Dermal			
LD50	Rabbit	> 2000 mg/kg, 24 Hours	
Hydroteated Microcrystalline wax	(CAS 64742-60-5)		
<u>Acute</u>			
Dermal LD50	Rat	> 2000 mg/kg, 24 Hours	
Paraffin Wax (CAS 8002-74-2)		2000 mg/kg, 21 hours	
Dermal			
LD50	Rat	> 2000 mg/kg, 24 Hours	
Petrolatum (CAS 8009-03-8)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2000 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.		
Matarial names Dukam@ Lli Creat Plus			

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	May cause cancer.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed.		
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1052)	
Not regulated.		
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	Symptoms may be delayed.	
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
Oleic Acid (CAS 112-80-1)			
Aquatic			
Fish	LC50	Fathead minnow (Pimeph	ales promelas) 205 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data a	vailable.	
Other adverse effects	None know	wn.	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.

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
Annex II of MARPOL 73/78 and
the IBC CodeNot established.

15. Regulatory information

15. Regulatory information		
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Haz Standard, 29 CFR 1910.1200.	zard Communication
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency releas	e notification	
Not regulated.	d Substances (29 CFR 1910.1001-1052)	
Not regulated.		
-	authorization Act of 1986 (SARA)	
SARA 302 Extremely hazard		
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Acute toxicity (any route of exposure) Carcinogenicity	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
US. New Jersey Worker and	Community Right-to-Know Act	
Paraffin Wax (CAS 8002-	74-2)	
California Proposition 6	5	
WARNING:	California Safe Drinking Water and Toxic Enforcement Act of 2016 (F is not known to contain any chemicals currently listed as carcinogens more information go to www.P65Warnings.ca.gov.	
US. California. Candidat subd. (a))	e Chemicals List. Safer Consumer Products Regulations (Cal. Co	de Regs, tit. 22, 69502.3,
Distillates Petroleum Petrolatum (CAS 800	Hydrotreated Med (CAS 64742-46-7) 9-03-8)	
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	Yes

European List of Notified Chemical Substances (ELINCS)

Inventory of Existing and New Chemical Substances (ENCS)

Philippine Inventory of Chemicals and Chemical Substances

Europe

Japan

Korea

New Zealand

Philippines

Taiwan

Substances (EINECS)

New Zealand Inventory

(PICCS)

Existing Chemicals List (ECL)

Taiwan Toxic Chemical Substances (TCS)

No

No

Yes

Yes

Yes

Yes

Country(s) or region Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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	02-25-2018
Version #	01
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 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.



1. Identification

Product identifier	Dykem® Hi-Spot Blue
Other means of identification	
Part Number	83307
Synonyms	FORMULA CODE(S): * 8716
Recommended use	Indicator paste
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	Carcinogenicity
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	



Signal word	Danger
Hazard statement	May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

Category 1B

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Petrolatum		8009-03-8	30 - 40
Oleic Acid		112-80-1	20 - 30
Distillates Petroleum Hydrotreated Med		64742-46-7	10 - 20
Solvent Blue 35		17354-14-2	5 - 10
Amides, Tallow, Hydrogenated		61790-31-6	1 - 5
Fatty Acids, Tallow, Hydrogenated		61790-38-3	1 - 5

Chemical name	Common name and synonyms	CAS number	%
Hydroteated Microcrystalline wa	X	64742-60-5	1 - 5
Paraffin Wax		8002-74-2	0.1 - 1
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	ns develop or persist.	
Skin contact	Wash off with soap and water. Get medical a	ttention if irritation develops a	nd persists.
Eye contact	Rinse with water. Get medical attention if irrita	ation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if sympto	ms 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	Provide general supportive measures and tre Symptoms may be delayed.	at symptomatically. Keep victi	m under observation.
General information	IF exposed or concerned: Get medical advice of the material(s) involved, and take precaution		al personnel are aware
5. Fire-fighting measures			
Suitable extinguishing media	Foam. Dry powder. Carbon dioxide (CO2).		
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wor	n 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 con	sider the hazards of other invo	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothing authorities should be advised if significant sp see section 8 of the SDS.	g during clean-up. Ensure ade	quate ventilation. Loc
Methods and materials for	Use water spray to reduce vapors or divert va	apor cloud drift.	
containment and cleaning up	Large Spills: Stop the flow of material, if this i possible. Absorb in vermiculite, dry sand or e recovery, flush area with water.		
	Small Spills: Wipe up with absorbent materia remove residual contamination.	l (e.g. cloth, fleece). Clean sur	face thoroughly to
	Never return spills to original containers for re containers. For waste disposal, see section 1		covered, labeled
Environmental precautions	Avoid discharge into drains, water courses or	onto the ground.	
7. Handling and storage			
Precautions for safe handling	Obtain special instructions before use. Do no and understood. Avoid prolonged exposure. S Provide adequate ventilation. Wear appropria industrial hygiene practices.	Should be handled in closed s	ystems, if possible.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly close (see Section 10 of the SDS).	d container. Store away from	incompatible materials

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.

US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	Form
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	Form
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
Biological limit values	No biological exposure limits noted f	or the ingredient(s).	
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.		
Individual protection measures	s, such as personal protective equipn	nent	
Eye/face protection	Wear safety glasses with side shield	s (or goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant	gloves.	
Other	Use of an impervious apron is recom	imended.	
Respiratory protection	Use a positive-pressure air-supplied exposure levels are not known, or ar provide adequate protection.		
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
General hygiene considerations	Observe any medical surveillance re measures, such as washing after ha smoking. Routinely wash work cloth	ndling the material and before	eating, drinking, and/or

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Paste.
Color	Blue.
Odor	Slight petroleum odor.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 200.0 °F (> 93.3 °C)
Evaporation rate	> 1 (BuAc = 1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive 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 (air = 1)
Relative density	0.95
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.
VOC	0 %
10. Stability and reactivity	y

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 flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
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 to simple and to simple and to simple and the second	Direct contact with eyes may cause temporary irritation.

toxicological characteristics

Information on toxicolog	gical effects	
Acute toxicity	Not known.	
Components	Species	Test Results
Distillates Petroleum Hydr	rotreated Med (CAS 64742-46-7)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Hydroteated Microcrystall	ine wax (CAS 64742-60-5)	
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Oleic Acid (CAS 112-80-1)	
Acute		
Dermal		
LD50	Guinea pig	> 3000 mg/kg
Oral		
LD50	Rat	74 g/kg

Paraffin Wax (CAS 8002-74-2)	Species	Test Results
Acute		
Dermal	Det	
LD50	Rat	> 2000 mg/kg, 24 Hours
Oral	Det	
LD50	Rat	> 5000 mg/kg
Petrolatum (CAS 8009-03-8)		
<u>Acute</u>		
Dermal	Dabbit	. 2000 mg/kg. 04 Hours
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Oral	Det	F000
LD50	Rat	> 5000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye rritation	Direct contact with eyes may cause t	emporary irritation.
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause	e skin sensitization.
Germ cell mutagenicity	No data available to indicate product mutagenic or genotoxic.	or any components present at greater than 0.1% are
Carcinogenicity	May cause cancer.	
IARC Monographs, Overall	Evaluation of Carcinogenicity	
Not regulated. US. National Toxicology Pr	ogram (NTP) Report on Carcinogens	
Not listed.		
	This product is not expected to cause	e reproductive or developmental effects.
Reproductive toxicity Specific target organ toxicity -	This product is not expected to cause Not classified.	e reproductive or developmental effects.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -		e reproductive or developmental effects.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	Not classified.	e reproductive or developmental effects.
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard	Not classified. Not classified. Not an aspiration hazard.	
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful	
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed.	
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed.	· · ·
Reproductive toxicity	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir	onmentally hazardous. However, this does not exclude the
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity <u>Components</u>	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir	onmentally hazardous. However, this does not exclude the
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity Components Oleic Acid (CAS 112-80-1)	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity Components Oleic Acid (CAS 112-80-1) Aquatic	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment Test Results
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity Components Oleic Acid (CAS 112-80-1) Aquatic Fish	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species LC50 Fathead minnow (Pirr	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment Test Results hephales promelas) 205 mg/l, 96 hours
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity Components Oleic Acid (CAS 112-80-1) Aquatic Fish Persistence and degradability	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species LC50 Fathead minnow (Pirr No data is available on the degradab	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment Test Results hephales promelas) 205 mg/l, 96 hours
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity Components Oleic Acid (CAS 112-80-1) Aquatic Fish Persistence and degradability Bioaccumulative potential	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species LC50 Fathead minnow (Pirr No data is available on the degradab No data available.	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment Test Results hephales promelas) 205 mg/l, 96 hours
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity Components Oleic Acid (CAS 112-80-1) Aquatic Fish Persistence and degradability Bioaccumulative potential Mobility in soil	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species LC50 Fathead minnow (Pirr No data is available on the degradab No data available. No data available.	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment Test Results hephales promelas) 205 mg/l, 96 hours
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity Components Oleic Acid (CAS 112-80-1) Aquatic Fish Persistence and degradability Bioaccumulative potential Mobility in soil	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species LC50 Fathead minnow (Pirr No data is available on the degradab No data available.	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment Test Results hephales promelas) 205 mg/l, 96 hours
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information 12. Ecological information 12. Ecological information 12. Ecological information 13. Ecological information 14. Ecological information 15. Ecological information 16. Ecotoxicity 17. Ecological information 17. Ecological information 18. Ecological information 19. Ecotoxicity 19. Ecotoxicity 19. Ecotoxicity 19. Ecotoxicity 19. Ecotoxicity 19. Ecotoxicity 19. Ecotoxicity 19. Ecotoxicity 19. Ecotoxicity 10. Ecotoxicity 11. Ecological information 12. Ecological information 13. Ecological information 14. Ecological information 15. Ecotoxicity 15. Ecotoxicity 17. Ecological information 18. Ecotoxicity 19. Ecotoxic	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species LC50 Fathead minnow (Pirr No data is available on the degradab No data available. No data available. None known.	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment Test Results hephales promelas) 205 mg/l, 96 hours
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information Ecotoxicity Components Oleic Acid (CAS 112-80-1) Aquatic	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species LC50 Fathead minnow (Pirr No data is available on the degradab No data available. No data available. No data available. None known. DNS Collect and reclaim or dispose in sea	onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment Test Results hephales promelas) 205 mg/l, 96 hours
Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects Further information 12. Ecological information 12. Ecological information Ecotoxicity <u>Components</u> Oleic Acid (CAS 112-80-1) Aquatic Fish Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. Disposal consideration	Not classified. Not classified. Not an aspiration hazard. Prolonged inhalation may be harmful Symptoms may be delayed. n The product is not classified as envir possibility that large or frequent spills Species LC50 Fathead minnow (Pirr No data is available on the degradab No data available. No data available. No data available. None known. DNS Collect and reclaim or dispose in sea	onmentally hazardous. However, this does not exclude the scan have a harmful or damaging effect on the environment Test Results hephales promelas) 205 mg/l, 96 hours lility of any ingredients in the mixture.

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 g	oods.
Not regulated as dangerous g	oods.
IMDG	
Not regulated as dangerous g	oods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
15. Regulatory information	1
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 I	Notification (40 CFR 707, Subpt. D)
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed. SARA 304 Emergency releas	se notification
	d Substances (29 CFR 1910.1001-1052)
Not regulated.	
Superfund Amendments and Re SARA 302 Extremely hazard Not listed.	authorization Act of 1986 (SARA) lous substance
	Vee
SARA 311/312 Hazardous chemical	
Classified hazard categories	Acute toxicity (any route of exposure) Carcinogenicity
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 (SDWA)	Not regulated.
US state regulations	
US. New Jersey Worker and	Community Right-to-Know Act
Paraffin Wax (CAS 8002-	74-2)
California Proposition 65	
	Vater and Toxic Enforcement Act of 2016 (Proposition 65): This material ny chemicals currently listed as carcinogens or reproductive toxins. For ww.P65Warnings.ca.gov.

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

Distillates Petroleum Hydrotreated Med (CAS 64742-46-7)

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)	Yes
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 "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	02-25-2018
Revision date	11-09-2018
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 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.

Section 1. IDENTIFICATION

Product Identifier	
Product Name	General Purpose Thred Gard.
Other means of Identification	
Product Code	TG04, TG08, TG16.
Recommended Use	Anti Seize Compound.
Recommended Restrictions	None Known.
<u>Manufacturer</u>	
Company Name Address	Federal Process Corporation 4520 Richmond Road Cleveland OH 44128
Telephone	1-800-846-7325
Emergency Telephone Number:	Call Chemtrec at 1-800-424-9300

Section 2. HAZARDS IDENTIFICATION

PHYSICAL STATE: C

Grease Like

Classification:

Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Signal Word:

Warning



Hazard Statements:

H319 - Causes serious eye irritation.

H317 – May cause an allergic skin reaction

Precautionary Statements:

Prevention:	Not expected to be present a hazard during normal use.
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.
	P332 + P313 – If skin irritation or rash occurs: Get medical advice/attention.
Disposal:	P501 - Dispose of contents/container to an approved waste disposal plant.
Other Hazards:	Toxic to aquatic life with long lasting effects.
Unknown Acute Toxicity:	2% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Petroleum oil	64741-96-4	60-80
Red iron oxide	1309-37-1	5-10

Section 4. FIRST AID MEASURES

First Aid Measures:	
Eye Contact	Rinse thoroughly with plenty of water, for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Skin Contact	If skin irritation occurs, rinse affected area with water. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	Remove to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Ingestion

Do NOT induce vomiting Get medical attention immediately. Rinse mouth with water. Never give anything by mouth to an unconscious individual.

Most Important Symptoms and effects:

Symptoms

Direct contact with eyes may cause temporary irritation. Do NOT ingest.

Section 5. FIRE-FIGHTING MEASURES

<u>Unsuitable Extinguishing Media:</u> Avoid solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical:

Carbon oxides expected to be the primary hazardous combustion product.

Protective Equipment and Precautions for Firefighters:

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

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:		
Personal Precautions:	Use personal protective equipment as required. Keep unnecessary personnel away.	
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:	Keep in suitable, closed containers for disposal.	

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Advice on Safe Handling:

Avoid breathing vapors or mists. Contaminated work-clothing should not be allowed out of the workplace.

Conditions for Safe Storage, including

Any Incompatibilities:

Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near heat, sparks, or open flames. KEEP OUT OF REACH OF CHILDREN.
Incompatible Materials:	None known based on information supplied.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name	ACGIH TWA	ACGIH STEL	OSHA TWA
Petroleum oil (CAS 64741-96-4)	5 mg/m3	N/A	5 mg/m3
Red iron oxide (CAS 1309-37-1)	NO DATA	NO DATA	NO DATA

Appropriate Engineering Controls:

Engineering Controls:	Apply technical measures to comply with the occupational exposure limits.
Individual Protection Measures, such a Personal Protective Equipment:	as
Eye/Face Protection:	Avoid contact with eyes.
Skin and Body Protection:	No protective equipment is needed under normal use conditions.
Respiratory Protection:	Ensure adequate ventilation, especially in confined areas. If confined in poorly ventilated areas use NIOSH/MSHA
General Hygiene Considerations:	Handle in accordance with good industrial hygiene and safety practice. Wash exposed areas thoroughly before eating, drinking, smoking or leaving work area. Launder contaminated clothing before reusing.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Appearance: Color:

Property pH Grease like. Viscous. Red <u>Values</u>

N/A

Odor: Mild. Odor Threshold: Not available.

Melting Point/Freezing Point	Not determined.
Boiling Point/Boiling Range	Not determined.
Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limit Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other Solvents Partition Coefficient (n-octanol/water) Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity	 >430F (>221C) Closed Cup. Not determined. n/a-liquid Not determined.
Explosive Properties Oxidizing Properties	Not determined. Not determined

Section 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.
Conditions to Avoid:	Keep out of reach of children.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Oxides of carbon.

Section 11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Eye Contact:	Causes serious eye irritation.
Skin Contact:	May cause an allergic skin reaction.
Inhalation:	Avoid breathing vapors or mists.
Ingestion:	Do not taste or swallow.

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum oil	N/A	N/A	N/A
(CAS 64741-96-4)			
Red iron oxide (CAS 1309-37-1)	>10 g/kg (Rat)	N/A	N/A

Information on physical, chemical and toxicological effects:

Symptoms:

Please section 4 of this SDS for symptoms.

Delayed and Immediate Effects as Well as Chronic Effects From Short and Long Term Exposure:

Sensitization:

May cause an allergic skin reaction.

Carcinogenicity:

Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum oil (CAS 64741-96-4)	NO DATA	NO DATA	NO DATA	NO DATA
Red iron oxide (CAS1309-37-1)	NO DATA	NO DATA	NO DATA	NO DATA

Legend

IARC (International Agency for Research on Cancer). Group3 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.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Toxic to aquatic life with lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			Microorganisms	
Petroleum oil (64741-96-4)	N/D	N/D	N/D	N/A
Red iron oxide (1309-37-1)	N/D	>10,000 mg/kg	N/D	N/D

Persistence/Degradability:

Not determined.

Bioaccumulation:	Not determined.
Mobility:	Not determined.
Other Adverse Effects:	Not determined.

Section 13. DISPOSAL CONSIDERATIONS

Waste Treatment Method:	
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.
Section 14. TRANSPORT INFORMATION	

DOT:

Not Regulated

Not regulated ..

PROPER SHIPPING NAME:

IDENTIFICATION NUMBER:

IATA:

N/A

N/A.

Not regulated

IMDG:

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Section 15. REGULATORY INFORMATION

International Inventories:

Not determined.

Not determined.

U.S. Federal Regulations:

Petroleum oil <u>SARA 313</u>:

No.

Copper flakes SARA 313

TSCA Inventory: <u>U.S Right-to-Know Regulations</u>: Yes Yes.

Not determined.

Section 16. OTHER INFORMATION

NFPA:	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	Not determined
HMIS	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	Not determined

Issue Date: 1St March 2014

Revision Date: 1^{23rd} March 2018

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End of Safety Data Sheet

Revised: 23rd March, 2018 Page 8 of 8

SAFETY DATA SHEET

Section 1. IDENTIFICATION

Product Identifier	
Product Name	General Purpose Thred Gard.
Other means of Identification	
Product Code	TG04, TG08, TG16.
Recommended Use	Anti Seize Compound.
Recommended Restrictions	None Known.
<u>Manufacturer</u>	
Company Name Address	Federal Process Corporation 4520 Richmond Road Cleveland OH 44128
Telephone	1-800-846-7325
Emergency Telephone Number:	Call Chemtrec at 1-800-424-9300

Section 2. HAZARDS IDENTIFICATION

PHYSICAL STATE: C

Grease Like

Classification:

Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Signal Word:

Warning



Hazard Statements:

H319 - Causes serious eye irritation.

H317 – May cause an allergic skin reaction

Precautionary Statements:

Prevention:	Not expected to be present a hazard during normal use.
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.
	P332 + P313 – If skin irritation or rash occurs: Get medical advice/attention.
Disposal:	P501 - Dispose of contents/container to an approved waste disposal plant.
Other Hazards:	Toxic to aquatic life with long lasting effects.
Unknown Acute Toxicity:	2% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Petroleum oil	64741-96-4	60-80
Red iron oxide	1309-37-1	5-10

Section 4. FIRST AID MEASURES

First Aid Measures:	
Eye Contact	Rinse thoroughly with plenty of water, for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Skin Contact	If skin irritation occurs, rinse affected area with water. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	Remove to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Ingestion

Do NOT induce vomiting Get medical attention immediately. Rinse mouth with water. Never give anything by mouth to an unconscious individual.

Most Important Symptoms and effects:

Symptoms

Direct contact with eyes may cause temporary irritation. Do NOT ingest.

Section 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use foam, dry chemical, carbon dioxide or water fog.
-------------------------------	--

<u>Unsuitable Extinguishing Media:</u> Avoid solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical:

Carbon oxides expected to be the primary hazardous combustion product.

Protective Equipment and Precautions for Firefighters:

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

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:		
Personal Precautions:	Use personal protective equipment as required. Keep unnecessary personnel away.	
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:	Keep in suitable, closed containers for disposal.	

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Advice on Safe Handling:

Avoid breathing vapors or mists. Contaminated work-clothing should not be allowed out of the workplace.

Conditions for Safe Storage, including

Any Incompatibilities:

Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near heat, sparks, or open flames. KEEP OUT OF REACH OF CHILDREN.
Incompatible Materials:	None known based on information supplied.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name	ACGIH TWA	ACGIH STEL	OSHA TWA
Petroleum oil (CAS 64741-96-4)	5 mg/m3	N/A	5 mg/m3
Red iron oxide (CAS 1309-37-1)	NO DATA	NO DATA	NO DATA

Appropriate Engineering Controls:

Engineering Controls:	Apply technical measures to comply with the occupational exposure limits.
Individual Protection Measures, such a Personal Protective Equipment:	as
Eye/Face Protection:	Avoid contact with eyes.
Skin and Body Protection:	No protective equipment is needed under normal use conditions.
Respiratory Protection:	Ensure adequate ventilation, especially in confined areas. If confined in poorly ventilated areas use NIOSH/MSHA
General Hygiene Considerations:	Handle in accordance with good industrial hygiene and safety practice. Wash exposed areas thoroughly before eating, drinking, smoking or leaving work area. Launder contaminated clothing before reusing.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Appearance: Color:

Property pH Grease like. Viscous. Red <u>Values</u>

N/A

Odor: Mild. Odor Threshold: Not available.

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Melting Point/Freezing Point	Not determined.
Boiling Point/Boiling Range	Not determined.
Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limit Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other Solvents Partition Coefficient (n-octanol/water) Auto-ignition Temperature Decomposition Temperature	Not determined. >430F (>221C) Closed Cup. Not determined. n/a-liquid Not determined. Not determined.
Kinematic Viscosity Explosive Properties Oxidizing Properties	Not determined. Not determined. Not determined

Section 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.
Conditions to Avoid:	Keep out of reach of children.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Oxides of carbon.

Section 11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Eye Contact:	Causes serious eye irritation.
Skin Contact:	May cause an allergic skin reaction.
Inhalation:	Avoid breathing vapors or mists.
Ingestion:	Do not taste or swallow.

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum oil	N/A	N/A	N/A
(CAS 64741-96-4)			
Red iron oxide (CAS 1309-37-1)	>10 g/kg (Rat)	N/A	N/A

Information on physical, chemical and toxicological effects:

Symptoms:

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Delayed and Immediate Effects as Well as Chronic Effects From Short and Long Term Exposure:

Sensitization:

May cause an allergic skin reaction.

Carcinogenicity:

Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum oil (CAS 64741-96-4)	NO DATA	NO DATA	NO DATA	NO DATA
Red iron oxide (CAS1309-37-1)	NO DATA	NO DATA	NO DATA	NO DATA

Legend

IARC (International Agency for Research on Cancer). Group3 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.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Toxic to aquatic life with lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			Microorganisms	
Petroleum oil (64741-96-4)	N/D	N/D	N/D	N/A
Red iron oxide (1309-37-1)	N/D	>10,000 mg/kg	N/D	N/D

Persistence/Degradability:

Not determined.

Bioaccumulation:	Not determined.
Mobility:	Not determined.
Other Adverse Effects:	Not determined.

Section 13. DISPOSAL CONSIDERATIONS

Waste Treatment Method:	
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.
S	Section 14. TRANSPORT INFORMATION

DOT:

Not Regulated

Not regulated ..

PROPER SHIPPING NAME:

IDENTIFICATION NUMBER:

IATA:

N/A

N/A.

Not regulated

IMDG:

Revised: 23rd March, 2018 Page 7 of 8

Section 15. REGULATORY INFORMATION

International Inventories:

Not determined.

Not determined.

U.S. Federal Regulations:

Petroleum oil <u>SARA 313</u>:

No.

Copper flakes SARA 313

TSCA Inventory: <u>U.S Right-to-Know Regulations</u>: Yes Yes.

Not determined.

Section 16. OTHER INFORMATION

NFPA:	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	Not determined
HMIS	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	Not determined

Issue Date: 1St March 2014

Revision Date: 1^{23rd} March 2018

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End of Safety Data Sheet

Revised: 23rd March, 2018 Page 8 of 8

Safety Data Sheet

RUST-OLEUM CORPORATION * Trusted Quality Since 1921 * www.rustoleum.com

1. Identification HPERF LSPR 6PK GLOSS RED-ORG FL **Product Name:** 8/6/2018 **Revision Date:** MARKING **Product Identifier:** V2358838 Supercedes Date: 3/14/2018 **Recommended Use:** Marking Paint/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

48% 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.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

Date Printed: 8/6/2018	Page 2 / 7
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.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	For specific treatment see label

GHS SDS PRECAUTIONARY STATEMENTS P363 Wash

Wash contaminated clothing before reuse.

3. Composition / Information On Ingredients

HAZARDOUS SUBSTANCES

<u>Chemical Name</u>	CAS-No.	<u>Wt.%</u>	GHS Symbols	GHS Statements
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	19	GHS08	H304
Propane	74-98-6	17	GHS04	H280
Hydrous Magnesium Silicate	14807-96-6	8.7	Not Available	Not Available
n-Butane	106-97-8	8.0	GHS04	H280
Acetone	67-64-1	7.3	GHS02-GHS07	H225-319-332-336
n-Butyl Acetate	123-86-4	3.6	GHS02-GHS07	H226-336

Date Printed: 8/	/6/2018
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Hydrotreated Light Distillate	64742-47-8	3.1	GHS08	H304
Xylenes (o-, m-, p- isomers)	1330-20-7	1.6	GHS02-GHS07	H226-315-319-332
Ethylbenzene	100-41-4	0.4	GHS02-GHS07- GHS08	H225-304-332-351-373
Stoddard Solvent	8052-41-3	0.2	GHS08	H304-372
Methyl ethyl ketoxime	96-29-7	0.1	GHS05-GHS06- GHS08	H302-312-317-318-331-351

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, 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
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	20.0	N.E.	N.E.	N.E.	N.E.
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	N.É.	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Acetone	67-64-1	10.0	250 ppm	500 ppm	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.É.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	500 ppm	N.E.
Methyl ethyl ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	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:	0.870	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-	
Decompostion Temp., °C:	N.D.	octanol/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: 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: 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). Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. 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.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 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
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
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
1330-20-7	Xylenes (o-, m-, p- isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
96-29-7	Methyl ethyl ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.8 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 Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities
Hazard Class:	N.A.	2.1	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

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>
Xylenes (o-, m-, p- isomers)	1330-20-7
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:

Chemical Name

Chemical Name	CAS-No.
Castor oil, sulfated, sodium salt	68187-76-8

16. Other Information

HMIS RATINGS Health: 2*	Flammability:	4	Physical Hazard:	0	Personal Protection:	х
NFPA RATINGS Health: 2	Flammability:	4	Instability	0		
Volatile Organic C	ompounds	524 g/L				
SDS REVISION D	ATE:	8/6/2018				
REASON FOR RE	VISION:	Substance and/or 02 - Hazard Iden	/Information on Ingre- nformation nation	C	tion(s):	

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.

Date Printed: 8/6/2018

Safety Data Sheet

RUST-OLEUM CORPORATION * Trusted Quality Since 1921 * www.rustoleum.com

1. Identification HPERF LSPR 6PK GLOSS RED-ORG FL **Product Name:** 8/6/2018 **Revision Date:** MARKING **Product Identifier:** V2358838 Supercedes Date: 3/14/2018 **Recommended Use:** Marking Paint/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

48% 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.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

Date Printed: 8/6/2018	Page 2 / 7
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.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	For specific treatment see label

GHS SDS PRECAUTIONARY STATEMENTS P363 Wash

Wash contaminated clothing before reuse.

3. Composition / Information On Ingredients

HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	<u>Wt.%</u>	GHS Symbols	GHS Statements
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	19	GHS08	H304
Propane	74-98-6	17	GHS04	H280
Hydrous Magnesium Silicate	14807-96-6	8.7	Not Available	Not Available
n-Butane	106-97-8	8.0	GHS04	H280
Acetone	67-64-1	7.3	GHS02-GHS07	H225-319-332-336
n-Butyl Acetate	123-86-4	3.6	GHS02-GHS07	H226-336

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Hydrotreated Light Distillate	64742-47-8	3.1	GHS08	H304
Xylenes (o-, m-, p- isomers)	1330-20-7	1.6	GHS02-GHS07	H226-315-319-332
Ethylbenzene	100-41-4	0.4	GHS02-GHS07- GHS08	H225-304-332-351-373
Stoddard Solvent	8052-41-3	0.2	GHS08	H304-372
Methyl ethyl ketoxime	96-29-7	0.1	GHS05-GHS06- GHS08	H302-312-317-318-331-351

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, 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
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	20.0	N.E.	N.E.	N.E.	N.E.
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	N.É.	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Acetone	67-64-1	10.0	250 ppm	500 ppm	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.É.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	500 ppm	N.E.
Methyl ethyl ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	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:	0.870	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-	
Decompostion Temp., °C:	N.D.	octanol/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: 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: 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). Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. 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>	Oral LD50	Dermal LD50	Vapor LC50
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 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
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
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
1330-20-7	Xylenes (o-, m-, p- isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
96-29-7	Methyl ethyl ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.8 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 Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities
Hazard Class:	N.A.	2.1	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

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>
Xylenes (o-, m-, p- isomers)	1330-20-7
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:

Chemical Name

Chemical Name	CAS-No.
Castor oil, sulfated, sodium salt	68187-76-8

16. Other Information

HMIS RATI Health:	INGS 2*	Flammability:	4	Physical Hazard:	0	Personal Protection:	х
NFPA RAT Health:	INGS 2	Flammability:	4	Instability	0		
Volatile Org	janic C	ompounds	524 g/L				
SDS REVIS		ATE:	8/6/2018				
REASON F	OR RE	VISION:	Substance and/or 02 - Hazard Iden	/Information on Ingreen nformation nation	Ū.	n Section(s):	

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.

Date Printed: 8/6/2018



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 Supplier Address Red Devil, Inc. 4175 Webb Street Pryor, Oklahoma 74361 www.reddevil.com	<u>v data sheet</u>	
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	Flammability	Instability	Special Hazards
	1	1	0	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

Safety Data Sheet



Revision Number: 001.3

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Loctite General Performance Spray Adhesive Product type: Adhesive Restriction of Use: None identified Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

Region: United States Contact information:

IDH number:

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

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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
DANGER:	EXTREMELY FLAMMABLE AEROSOL.	
	CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.	
	CAUSES SKIN IRRITATION.	
	CAUSES SERIOUS EYE IRRITATION.	
	MAY CAUSE DROWSINESS OR DIZZINESS.	

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE AEROSOL.	1
GASES UNDER PRESSURE	Compr. Gas
SKIN IRRITATION	2
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



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. Avoid breathing mist or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.
Response:	IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Methyl acetate	79-20-9	20 - 30	
Acetone	67-64-1	10 - 20	
Dimethyl ether	115-10-6	10 - 20	
1,1-Difluoroethane	75-37-6	1 - 10	
Heptane, branched, cyclic and linear	426260-76-6	1 - 10	
Naphtha, hydrotreated light, <0,1% benzene	64742-49-0	1 - 10	
Propane	74-98-6	1 - 10	
Cyclohexane	110-82-7	0.1 - 1	
Acetaldehyde	75-07-0	0 - 0.1	
Naphthalene	91-20-3	0 - 0.1	
Methanol	67-56-1	0 - 0.1	

* 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. In case of adverse health effects seek medical advice.
Skin contact:	Wash affected area immediately with soap and water. If symptoms develop and persist, get medical attention. Remove contaminated clothes.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for minutes, and seek immediate medical attention.
Ingestion:	If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting: contains petroleum distillates and/or aroma solvents. If vomiting occurs, prevent aspiration by keeping the patient's heat below the knees.
Symptoms:	See Section 11.
Notes to physician:	This material is an aspiration hazard. Potential danger from aspiration mus be weighed against possible oral toxicity when deciding whether to induce vomiting.
5. Fl	IRE FIGHTING MEASURES
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressur build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.
Unusual fire or explosion hazards:	Contents under pressure. Do not handle or store near an open flame, heat other sources of ignition. Do not puncture or incinerate pressurized containers. Exposure to temperatures above 49°C (120°F) may cause container to burst.

Hazardous combustion products:

Not available.

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:	Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.	
Clean-up methods:	Absorb spill with inert material. Shovel material into appropriate container for disposal. Follow all local, state, federal and provincial regulations for disposal.	

7. HANDLING AND STORAGE

Handling:

Keep out of the reach of children. Keep in a cool, well ventilated area. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains. Do not puncture or incinerate pressurized containers.

Storage:

For safe storage, store at or below 50 °C (122°F) Keep away from heat, spark and flame. Store in a cool, dry, well-ventilated area.

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
Methyl acetate	200 ppm TWA 250 ppm STEL	200 ppm (610 mg/m3) PEL	None	None
Acetone	250 ppm TWA 500 ppm STEL	1,000 ppm (2,400 mg/m3) PEL	None	None
Dimethyl ether	None	None	1,000 ppm (1,880 mg/m3) TWA	None
1,1-Difluoroethane	None	None	1,000 ppm (2,700 mg/m3) TWA	None
Heptane, branched, cyclic and linear	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) PEL	None	None
Naphtha, hydrotreated light, <0,1% benzene	None	100 ppm (400 mg/m3) PEL	None	None
Propane	Included in the regulation but with no data values. See regulation for further details (Simple asphyxiant.)	1,000 ppm (1,800 mg/m3) PEL	None	None
Cyclohexane	100 ppm TWA	300 ppm (1,050 mg/m3) PEL	None	None
Acetaldehyde	25 ppm Ceiling	200 ppm (360 mg/m3) PEL	None	None
Naphthalene	10 ppm TWA (SKIN)	10 ppm (50 mg/m3) PEL	None	None
Methanol	200 ppm TWA (SKIN) 250 ppm STEL	200 ppm (260 mg/m3) PEL	None	None

Engineering controls:Provide local and general exhaust ventilation to effectively remove and
prevent buildup of any vapors or mists generated from the handling of this
product.Respiratory protection:If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or
vapors, appropriate NIOSH/MSHA respiratory protection must be provided.Eye/face protection:Safety goggles or safety glasses with side shields.Skin protection:Use impermeable gloves and protective clothing as necessary to prevent skin
contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Color:	No information available.
Odor:	Not available.
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	52 °C (125.6 °F)
Melting point/ range:	Not available.
Vapor density:	Not available.
Flash point:	-104.4 °C (-155.92 °F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not applicable
Flammability:	Extremely flammable aerosol.
Evaporation rate:	Not available.
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available.
VOC content:	28.1 % (by weight, calculated using CARB method; g/L less water, less
	exempts calculated using SCAQMD method)
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Not available.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Incompatible materials:	Strong oxidizing agents.
Reactivity:	Not available.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition.
Reactivity:	Not available.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Skin contact:	Prolonged and/or repeated skin contact may result in mild irritation or redness. Repeated or prolonged contact can result in drying of skin. Symptoms may include redness, burning, drying, cracking and skin burns.
Eye contact:	Symptoms can include irritation, redness, scratching of the cornea, and tearing. Mild eye irritation.
Ingestion:	May be harmful if swallowed. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Methyl acetate	Oral LD50 (Rabbit) = 3.7 g/kg	Blood, Central nervous system, Eyes, Irritant
Acetone	Oral LD50 (Mouse) = 5.2 g/kg Oral LD50 (Mouse) = 3,000 mg/kg Oral LD50 (Rabbit) = 5,340 mg/kg Oral LD50 (Rat) = 5,800 mg/kg Oral LD50 (Rat) = 9,800 mg/kg Dermal LD50 (Rabbit) = 20,000 mg/kg Inhalation LC50 (Rat, 4 h) = 76 mg/l	Central nervous system, Irritant
Dimethyl ether	Inhalation LC50 (Rat, 4 h) = 308.5 mg/l	Irritant, Central nervous system
1,1-Difluoroethane	None	Cardiac, Central nervous system, Developmental, Irritant, Respiratory
Heptane, branched, cyclic and linear	None	Irritant, Central nervous system
Naphtha, hydrotreated light, <0,1% benzene	None	Central nervous system, Irritant, Kidney, Lung
Propane	None	Cardiac, Central nervous system, Irritant
Cyclohexane	Oral LD50 (Rat) = 29,820 mg/kg Oral LD50 (Mouse) = 1,300 mg/kg	Irritant, Central nervous system
Acetaldehyde	Oral LD50 (Mouse) = 1,230 mg/kg Oral LD50 (Rat) = 661 mg/kg Oral LD50 (Rat) = 1,930 mg/kg Oral LD50 (Rat) = 1,930 mg/kg Oral LD50 (Rat) = 661 mg/kg Oral LD50 (Mouse) = 1,230 mg/kg Dermal LD50 (Rabbit) = 3,540 mg/kg Dermal LD50 (Rabbit) = 3,540 mg/kg Inhalation LC50 (Rat, 4 h) = 24 mg/l	Allergen, Central nervous system, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity, Less weight gain and food intake.
Naphthalene	Oral LD50 (Rat) = 490 mg/kg Oral LD50 (Rat) = 2.6 g/kg Oral LD50 (Rat) = 2.200 mg/kg Oral LD50 (Rat) = 2,200 mg/kg Dermal LD50 (Rat) = > 20 g/kg Dermal LD50 (Rabbit) = > 2.0 g/kg Oral LD50 (Rat) = 5,628 mg/kg	Blood, Central nervous system, Eyes, Irritant
Methanol	Oral LD50 (Nat) = 7,300 mg/kg Oral LD50 (Rabbit) = 14.4 g/kg Dermal LD50 (Rabbit) = 15,800 mg/kg Inhalation LC50 (Rat, 4 h) = 64000 ppm	Eyes, Irritant, Metabolic, Nervous System

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methyl acetate	No	No	No
Acetone	No	No	No
Dimethyl ether	No	No	No
1,1-Difluoroethane	No	No	No
Heptane, branched, cyclic and linear	No	No	No
Naphtha, hydrotreated light, <0,1% benzene	No	No	No
Propane	No	No	No
Cyclohexane	No	No	No
Acetaldehyde	Reasonably Anticipated to be	Group 2B	No

	a Human Carcinogen.		
Naphthalene	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Methanol	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:	Follow all local, state, federal and provincial regulations for disposal.
Hazardous waste number:	It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

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 (4 Proper shipping name: Hazard class or division: Identification number: Packing group: DOT Hazardous Substance(s):	19 CFR) Aerosols 2.1 UN 1950 None Acetone
International Air Transportation (ICAO/IATA) Proper shipping name: Hazard class or division: Identification number: Packing group:	Aerosols, flammable 2.1 UN 1950 None
Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group: Marine pollutant:	AEROSOLS (Heptanes) 2.1 UN 1950 None Heptanes

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
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. Immediate Health, Delayed Health, Fire, Sudden Release 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). Cyclohexane (CAS# 110-82-7).

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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: This Safety Data Sheet contains changes from the previous version in Section(s): 2,16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 05/08/2018

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Safety Data Sheet



Revision Number: 001.3

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

Adhesive Product type: Adhesive Restriction of Use: None identi Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

Loctite General Performance Spray Adhesive Adhesive None identified

Region:United StatesContact information:Telephone: +1 (860) 571-5100MEDICAL EMERGENCY Phone: Poison Control Center1-877-671-4608 (toll free) or 1-303-592-1711TRANSPORT EMERGENCY Phone: CHEMTREC1-800-424-9300 (toll free) or 1-703-527-3887Internet: www.henkelna.com

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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
DANGER:	EXTREMELY FLAMMABLE AEROSOL.		
	CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.		
	CAUSES SKIN IRRITATION.		
	CAUSES SERIOUS EYE IRRITATION.		
	MAY CAUSE DROWSINESS OR DIZZINESS.		

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE AEROSOL.	1
GASES UNDER PRESSURE	Compr. Gas
SKIN IRRITATION	2
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



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. Avoid breathing mist or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.
Response:	IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Methyl acetate	79-20-9	20 - 30	
Acetone	67-64-1	10 - 20	
Dimethyl ether	115-10-6	10 - 20	
1,1-Difluoroethane	75-37-6	1 - 10	
Heptane, branched, cyclic and linear	426260-76-6	1 - 10	
Naphtha, hydrotreated light, <0,1% benzene	64742-49-0	1 - 10	
Propane	74-98-6	1 - 10	
Cyclohexane	110-82-7	0.1 - 1	
Acetaldehyde	75-07-0	0 - 0.1	
Naphthalene	91-20-3	0 - 0.1	
Methanol	67-56-1	0 - 0.1	

* 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. In case of adverse health effects seek medical advice.
Skin contact:	Wash affected area immediately with soap and water. If symptoms develop and persist, get medical attention. Remove contaminated clothes.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 1 minutes, and seek immediate medical attention.
Ingestion:	If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting: contains petroleum distillates and/or aroma solvents. If vomiting occurs, prevent aspiration by keeping the patient's hea below the knees.
Symptoms:	See Section 11.
Notes to physician:	This material is an aspiration hazard. Potential danger from aspiration mus be weighed against possible oral toxicity when deciding whether to induce vomiting.
5. F	IRE FIGHTING MEASURES
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.
Unusual fire or explosion hazards:	Contents under pressure. Do not handle or store near an open flame, heat other sources of ignition. Do not puncture or incinerate pressurized containers. Exposure to temperatures above 49°C (120°F) may cause container to burst.

Hazardous combustion products:

Not available.

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:	Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.	
Clean-up methods:	Absorb spill with inert material. Shovel material into appropriate container for disposal. Follow all local, state, federal and provincial regulations for disposal.	

7. HANDLING AND STORAGE

Handling:

Keep out of the reach of children. Keep in a cool, well ventilated area. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains. Do not puncture or incinerate pressurized containers.

Storage:

For safe storage, store at or below 50 $^{\circ}\text{C}$ (122 $^{\circ}\text{F})$ Keep away from heat, spark and flame. Store in a cool, dry, well-ventilated area.

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
Methyl acetate	200 ppm TWA 250 ppm STEL	200 ppm (610 mg/m3) PEL	None	None
Acetone	250 ppm TWA 500 ppm STEL	1,000 ppm (2,400 mg/m3) PEL	None	None
Dimethyl ether	None	None	1,000 ppm (1,880 mg/m3) TWA	None
1,1-Difluoroethane	None	None	1,000 ppm (2,700 mg/m3) TWA	None
Heptane, branched, cyclic and linear	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) PEL	None	None
Naphtha, hydrotreated light, <0,1% benzene	None	100 ppm (400 mg/m3) PEL	None	None
Propane	Included in the regulation but with no data values. See regulation for further details (Simple asphyxiant.)	1,000 ppm (1,800 mg/m3) PEL	None	None
Cyclohexane	100 ppm TWA	300 ppm (1,050 mg/m3) PEL	None	None
Acetaldehyde	25 ppm Ceiling	200 ppm (360 mg/m3) PEL	None	None
Naphthalene	10 ppm TWA (SKIN)	10 ppm (50 mg/m3) PEL	None	None
Methanol	200 ppm TWA (SKIN) 250 ppm STEL	200 ppm (260 mg/m3) PEL	None	None

Engineering controls:Provide local and general exhaust ventilation to effectively remove and
prevent buildup of any vapors or mists generated from the handling of this
product.Respiratory protection:If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or
vapors, appropriate NIOSH/MSHA respiratory protection must be provided.Eye/face protection:Safety goggles or safety glasses with side shields.Skin protection:Use impermeable gloves and protective clothing as necessary to prevent skin
contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Color:	No information available.
Odor:	Not available.
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	52 °C (125.6 °F)
Melting point/ range:	Not available.
Vapor density:	Not available.
Flash point:	-104.4 °C (-155.92 °F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not applicable
Flammability:	Extremely flammable aerosol.
Evaporation rate:	Not available.
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available.
VOC content:	28.1 % (by weight, calculated using CARB method; g/L less water, less
	exempts calculated using SCAQMD method)
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Not available.
Will not occur.
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Strong oxidizing agents.
Not available.
Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Skin contact:	Prolonged and/or repeated skin contact may result in mild irritation or redness. Repeated or prolonged contact can result in drying of skin. Symptoms may include redness, burning, drying, cracking and skin burns.
Eye contact:	Symptoms can include irritation, redness, scratching of the cornea, and tearing. Mild eye irritation.
Ingestion:	May be harmful if swallowed. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Methyl acetate	Oral LD50 (Rabbit) = 3.7 g/kg	Blood, Central nervous system, Eyes, Irritant
Acetone	Oral LD50 (Mouse) = 5.2 g/kg Oral LD50 (Mouse) = 3,000 mg/kg Oral LD50 (Rabbit) = 5,340 mg/kg Oral LD50 (Rat) = 5,800 mg/kg Oral LD50 (Rat) = 9,800 mg/kg Dermal LD50 (Rabbit) = 20,000 mg/kg Inhalation LC50 (Rat, 4 h) = 76 mg/l	Central nervous system, Irritant
Dimethyl ether	Inhalation LC50 (Rat, 4 h) = 308.5 mg/l	Irritant, Central nervous system
1,1-Difluoroethane	None	Cardiac, Central nervous system, Developmental, Irritant, Respiratory
Heptane, branched, cyclic and linear	None	Irritant, Central nervous system
Naphtha, hydrotreated light, <0,1% benzene	None	Central nervous system, Irritant, Kidney, Lung
Propane	None	Cardiac, Central nervous system, Irritant
Cyclohexane	Oral LD50 (Rat) = 29,820 mg/kg Oral LD50 (Mouse) = 1,300 mg/kg	Irritant, Central nervous system
Acetaldehyde	Oral LD50 (Mouse) = 1,230 mg/kg Oral LD50 (Rat) = 661 mg/kg Oral LD50 (Rat) = 1,930 mg/kg Oral LD50 (Rat) = 1,930 mg/kg Oral LD50 (Rat) = 661 mg/kg Oral LD50 (Mouse) = 1,230 mg/kg Dermal LD50 (Rabbit) = 3,540 mg/kg Dermal LD50 (Rabbit) = 3,540 mg/kg Inhalation LC50 (Rat, 4 h) = 24 mg/l	Allergen, Central nervous system, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity, Less weight gain and food intake.
Naphthalene	Oral LD50 (Rat) = 490 mg/kg Oral LD50 (Rat) = 2.6 g/kg Oral LD50 (Rat) = 2,200 mg/kg Oral LD50 (Rat) = 2,400 mg/kg Dermal LD50 (Rat) = > 20 g/kg Dermal LD50 (Rabit) = > 2.0 g/kg	Blood, Central nervous system, Eyes, Irritant
Methanol	Oral LD50 (Rat) = 5,628 mg/kg Oral LD50 (Mouse) = 7,300 mg/kg Oral LD50 (Rabbit) = 14.4 g/kg Dermal LD50 (Rabbit) = 15,800 mg/kg Inhalation LC50 (Rat, 4 h) = 64000 ppm	Eyes, Irritant, Metabolic, Nervous System

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methyl acetate	No	No	No
Acetone	No	No	No
Dimethyl ether	No	No	No
1,1-Difluoroethane	No	No	No
Heptane, branched, cyclic and linear	No	No	No
Naphtha, hydrotreated light, <0,1% benzene	No	No	No
Propane	No	No	No
Cyclohexane	No	No	No
Acetaldehyde	Reasonably Anticipated to be	Group 2B	No

	a Human Carcinogen.		
Naphthalene	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Methanol	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:	Follow all local, state, federal and provincial regulations for disposal.
Hazardous waste number:	It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

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: Hazard class or division:	Aerosols 2.1	
Identification number:	UN 1950	
Packing group:	None	
DOT Hazardous Substance(s):	Acetone	
International Air Transportation (ICAO/IATA)		
Proper shipping name:	Aerosols, flammable	
Hazard class or division:	2.1	
Identification number:	UN 1950	
Packing group:	None	
Water Transportation (IMO/IMDG)		
Proper shipping name:	AEROSOLS (Heptanes)	
Hazard class or division:	2.1	
Identification number:	UN 1950	
Packing group:	None	
Marine pollutant:	Heptanes	

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
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. Immediate Health, Delayed Health, Fire, Sudden Release 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). Cyclohexane (CAS# 110-82-7).

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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: This Safety Data Sheet contains changes from the previous version in Section(s): 2,16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 05/08/2018

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MARVEL OIL CO., INC. 2250 W. Pinehurst Blvd., STE 150 Addison, IL 60101

SAFETY DATA SHEET

1. Product and Company Identification

1.1 Product Identifier

Product Name: Product Code (SKU): Marvel Air Tool Oil MM85R1 (50100), MM080R (50093) - See Section 15 for discontinued SKU's

1.2 Relevant Identified Uses Of The Substance

 Product Use:
 Engine Oil Additive – Fuel additive (EPA Registered)

1.3 Details of the Supplier of the SDS

Company Name: Street Address: City, State, Zip Code: Marvel Oil Company, Inc. 2250 W. Pinehurst Blvd., Suite 150 Addison, IL 60101

1.4 Emergency Telephone Numbers

Phone Number: Fax Number: Transportation: Medical Assistance: 1(630)455-3700 1(630)455-3868 1(800)424-9300 (CHEMTREC) Call your local Poison Control Center

2. <u>Hazard Identification:</u>

2.1 Classification of the Substance or Mixture

Hazard Classification:

Flammable liquid 3 Skin irritation 2 Reproductive Toxicity 2 Aspiration toxicity 1

2.2 Label Elements

Pictogram:

Signal Word:

Hazard Statement:

Precautionary Statement:

Danger

Flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility of the un-born child. May be fatal if swallowed and enters airways.

Keep away from heat, sparks, open flames or hot surfaces. Do not smoke. Keep containers tightly closed. Ground all containers and receiving equipment. Use explosion proof electrical, ventilation, and lighting equipment. Use only nonsparking tools. Take precautionary measures against static discharge. Wear protective gloves, clothing, eye glasses and face shield. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. If exposed, get medical attention. If on skin or hair, remove immediately all contaminated clothing and launder before re-use. Wash skin with soap and water. If skin irritation occurs, get medical attention. If swallowed, immediately call a poison control center or doctor. Do NOT induce vomiting. Store in a well ventilated place. Dispose of contents and container in accordance with all local, state, national and international regulations.

2.3 Other Hazards

Description of additional HNOC: None

3. Information on Ingredients:

3.1 Substance	not applicable	
3.2 Mixture		
<u>Component</u>	<u>CAS Number</u>	Concentration (wt%)
Petroleum Distillates (Hydrotreated Heavy	64742-52-5	60-100%
Naphthenic)		
Petroleum Distillates (Stoddard Solvent)	8052-41-3	10-30%
Tricresyl Phosphate	1330-78-5	0.1-1.0%
Ortho Dichlorobenzene	95-50-1	0.1-1.0%
Para Dichlorobenzene	106-46-7	<0.1%

4. First Aid Measures:

4.1 Description of First Aid Measures

Inhalation: Remove to fresh air and promote deep breathing. Get medical attention if effects persist or you feel un-well.

Skin: In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and footwear. Launder clothing before re-use. Call a physician if irritation develops or persists.

Eyes: In case of eye contact, immediately flush eyes with plenty of water. Remove contact lenses if worn. If irritation persists, get medical attention

Ingestion: If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a poison control center or physician.

4.2 Most important symptoms and effects – acute and chronic

Inhalation:	May cause respiratory tract irritation. Vapors may cause drowsiness or dizziness.
Skin:	Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.
Eyes:	May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with redness and swelling.
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, and vomiting.

4.3 Indication of any immediate medical attention and special treatment

Symptoms may not appear immediately. Seek medical attention if effects develop or persist and you feel un-well.

5. <u>Fire Fighting Measures:</u>

5.1 Extinguishing media

Carbon dioxide, dry chemical, and alcohol foam

5.2 Special hazards arising from the substance or mixture

CO₂, CO, and hydrocarbons

5.3 Advice for Fire Fighters

Keep up wind of fire. Wear full firefighting turn out gear (full bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. See Section 8 for personal protection.

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 all source of ignition.

6.2 Methods and materials for containment and clean up

For containment: Contain and absorb spill with inert material. Place in suitable container for disposal. Do not flush to sewer or allow to enter waterways. See section 8 for PPE.

For clean up: Take up material and place in a suitable container. Vapors may be heavier than air and may travel along the ground to a distant source of ignition. Provide adequate ventilation.

7. Handling and Storage

7.1 Precautions for safe handling

Keep away from source of ignition. Do not smoke. Take precaution to eliminate static discharge. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Do not eat or drink while handling. Wash hands with soap and water after handling. Use only non-sparking tools.

7.2 Conditions for safe storage including incompatibilities

Keep out of reach of children. Store in a well ventilated place. Do not store above 49°C (120°F).

7.3 Specific end uses

Shelf Life: Shelf life is considered to be 7 – 10 years when properly stored.

8. Exposure Control/Personal Protection:

8.1 Control parameters

Exposure Limits 8 hr TWA:	(OSHA PEL)	(ACGIH TWA)
Petroleum Distillates (Hydrotreated Heavy	not applicable	not applicable
Naphthenic)		
Petroleum Distillates (Stoddard Solvent)	500 ppm	100 ppm
Tricresyl Phosphate	not applicable	not applicable
Ortho Dichlorobenzene	50 ppm	25 ppm
Para Dichlorobenzene	75 ppm	10 ppm

8.2 Exposure controls

Use adequate ventilation to keep exposure below recommended limits. Ensure that eye wash station and safety shower are close to work station.

Hand Protection Equipment: Wear chemical resistant gloves to prevent skin contact.
Eye Protection Equipment: Wear safety glasses or splash goggles to prevent eye contact.
Skin and Body Protection: Wear suitable protective clothing.
Respiration/Ventilation Protection Requirements: Provide good ventilation.
Ingestion Protection Requirements: Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

9. Physical And Chemical Properties:

9.1 Information of basic chemical and physical properties

Physical Form: Color: Odor: Odor Threshold: pH: Melting Point/Freeze Point: Initial Boiling Point: Flash Point (Seta Closed Cup):	thin liquid clear red typical oily not available not applicable – oil based product $-51^{\circ}C (-60^{\circ}F)$ not available $53^{\circ}C (128^{\circ}F)$	
Flammability Limits:Explosive LineEvaporation Rate:Explosive LineFlammability Solid/Gas:Vapor Pressure:Vapor Density:Specific Gravity:Solubility in Water:Auto Ignition Temperature:Partition coefficient (n/octonol/water):Viscosity (Kinimatic @ 100°C):	tion Rate:not availablebility Solid/Gas:not applicableressure:not availableressure:not availableensity:not availableGravity:0.876ty in Water:insolubleintion Temperature:not availableocefficient (n/octonol/water):not available	
9. 2 Other information% NVM by Weight:% VOC Content (California):	75.0% 24.92%	

10. Stability and Reactivity:

10.1 Reactivity

Does not react under normal conditions

10.2 Chemical stability Stable

10.3 Possibility of hazardous reactions

Does not react under normal conditions

10.4 Conditions to avoid

Heat and incompatible materials

10.5 Incompatible materials

Strong oxidizers such as bleach and peroxides

10.6 Hazardous decomposition products

CO₂, CO and hydrocarbons

11. Toxicological Information:

11.1 Information on Toxicological effects

Marvel Mystery Oil	
LD50 – Oral Rat	>2000 mg/Kg
LD50 – Dermal Rabbit	>2000 mg/Kg
LC50 – Inhalation Rat	>20 mg/L (4 hr)

Petroleum Distillates Hydrotreated Heavy Naphthenic (64742-52-5)

LD50 – Oral Rat	>5000 mg/Kg
LD50 – Dermal Rabbit	>5000 mg/Kg
LC50 – Inhalation Rat	>5 mg/L (4 hr)

Tricresyl Phosphate (1330-78-5) LD50 – Oral Rat 3000 mg/Kg

o-Dichlorobenzene (95-50-1)	
LD50 – Oral Rat	500 mg/Kg
LD50 – Dermal Rabbit	>10000 mg/Kg
LC50 – Inhalation Rat	8.15 mg/L (4 hr)

p-Dichlorobenzene (106	<u>-46-7)</u>
LD50 – Oral Rat	>2000 mg/Kg
LD50 – Dermal Rabbit	>2000 mg/Kg

Skin corrosion/irritation	Causes skin irritation
Serious eye damage/irritation	Based on available data, classification data are not met
Respiratory or skin sensitization	Based on available data, classification data are not met
Germ cell mutagenicity	Based on available data, classification data are not met
Carcinogenicity	Based on available data, classification data are not met
o-Dichlorobenzene (95-50-1)	IARC Group 3 – Not Classified

p-dichlorobenzene (106-46-7)	IARC Group 2B – Possible carcinogen to humans. NTP 1-Evidence of Carcinogenicity 3, Reasonably anticipated to be a human Carcinogen
Reproductive toxicity	Suspected of damaging fertility of un-born child
Specific target organs – single expo	
	Based on available data, classification data are not met
Specific target organs – repeated ex	(posure
	Based on available data, classification data are not met
Aspiration hazard	May be fatal if swallowed and enters air ways.
Symptoms/injuries after inhalation	May cause respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Symptoms/injuries after skin contact	t Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.
Symptoms/injuries after eye contact	May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with 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, and vomiting.

12. Ecological Information:

12.1 Toxicity

Not recommended for release into aquatic systems without treatment

12.2 Persistence and degradability

Not established

12.3 Bioaccumulative potential

Not established

12.4 Mobility in soil Not established

12.5 Other adverse effects None known

13. Disposal Considerations:

13.1 Waste treatment methods

RCRA Hazardous Waste:	Regulated as a hazardous waste (D-001 Ignitable).
Waste Disposal Method:	Dispose of in accordance with local, state and federal
	regulations
Waste Disposal Vessel:	Metal drums are recommended.

14. Transportation Information:

14.1 UN number 1268

14.2 UN Proper shipping name

Petroleum Distillate n.o.s.

14.3 Transport Hazard class 3

14.4 Packaging group

14.5 Marine Pollutant No

14.6 Transportation in Bulk Not applicable

14.7 Special precautions Use limited quantities

15. Regulatory Information:

15.1 US Federal Regulations

TSCA Status: All ingredients are commercially available and listed by the manufacturer under TSCA.

15.2 Foreign Regulations

Canadian Status: All materials contained in this product are listed on the Canadian Domestic Substance List (DSL). Consult Turtle Wax, Inc. regarding status of ingredients.

European Union: All materials contained in this product are listed on EINECS.

AICS: All materials are registered for AICS (Australia)

15.3 State Regulations

State Regulatory Information:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state.

California Prop 65:

CAS Number	Concentration		State Code	
p-Dichlorobenzene (106-46-7	7) <0.1%		Cancer	
15.4 HMIS & NFPA Classifications				
HMIS Classification:	Health Flammability Reactivity	2 2 0		
NFPA Classification:	Health Flammability	2 2		

	Reactivity	0
15.5 Discontinued SKU's	All discontinued SKU	's used this same formula.
MM080, MM085, MM85R, MM086, MM088R, MM089		

16. Other Information:

Reason For Issue	Address Update
Prepared By	James Heidel
Preparer's Title	Technical Director, R&D
SDS Administrator	Jean Mayszak - Technical Compliance Manager, R&D
Approval Date	January 26, 2017
Supersedes Date	March 10, 2015
Revision Number	#12

This information is, to the best of Turtle Wax, Inc.'s knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitableness and completeness of such information for their own particular use.



MARVEL OIL CO., INC. 2250 W. Pinehurst Blvd., STE 150 Addison, IL 60101

SAFETY DATA SHEET

1. Product and Company Identification

1.1 Product Identifier

Product Name: Product Code (SKU): Marvel Air Tool Oil MM85R1 (50100), MM080R (50093) - See Section 15 for discontinued SKU's

1.2 Relevant Identified Uses Of The SubstanceProduct Use:Engine Oil Additive – Fuel additive (EPA Registered)

1.3 Details of the Supplier of the SDS

Company Name: Street Address: City, State, Zip Code: Marvel Oil Company, Inc. 2250 W. Pinehurst Blvd., Suite 150 Addison, IL 60101

1.4 Emergency Telephone Numbers

Phone Number:	1(630)455-3700
Fax Number:	1(630)455-3868
Transportation:	1(800)424-9300 (CHEMTREC)
Medical Assistance:	Call your local Poison Control Center

2. Hazard Identification:

2.1 Classification of the Substance or Mixture

Hazard Classification:	Flammable liquid 3
	Skin irritation 2
	Reproductive Toxicity 2
	Aspiration toxicity 1

2.2 Label Elements

Pictogram:

Signal Word:

Hazard Statement:

Precautionary Statement:



Danger

Flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility of the un-born child. May be fatal if swallowed and enters airways.

Keep away from heat, sparks, open flames or hot surfaces. Do not smoke. Keep containers tightly closed. Ground all containers and receiving equipment. Use explosion proof electrical, ventilation, and lighting equipment. Use only nonsparking tools. Take precautionary measures against static discharge. Wear protective gloves, clothing, eye glasses and face shield. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. If exposed, get medical attention. If on skin or hair, remove immediately all contaminated clothing and launder before re-use. Wash skin with soap and water. If skin irritation occurs, get medical attention. If swallowed, immediately call a poison control center or doctor. Do NOT induce vomiting. Store in a well ventilated place. Dispose of contents and container in accordance with all local, state, national and international regulations.

2.3 Other Hazards

Description of additional HNOC: None

3. Information on Ingredients:

3.1 Substance	not applicable	
3.2 Mixture		
Component	CAS Number	Concentration (wt%)
Petroleum Distillates (Hydrotreated Heavy Naphthenic)	64742-52-5	60-100%
Petroleum Distillates (Stoddard Solvent)	8052-41-3	10-30%
Tricresyl Phosphate	1330-78-5	0.1-1.0%
Ortho Dichlorobenzene	95-50-1	0.1-1.0%
Para Dichlorobenzene	106-46-7	<0.1%

4. First Aid Measures:

4.1 Description of First Aid Measures

Inhalation: Remove to fresh air and promote deep breathing. Get medical attention if effects persist or you feel un-well.

Skin: In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and footwear. Launder clothing before re-use. Call a physician if irritation develops or persists.

Eyes: In case of eye contact, immediately flush eyes with plenty of water. Remove contact lenses if worn. If irritation persists, get medical attention

Ingestion: If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a poison control center or physician.

4.2 Most important symptoms and effects – acute and chronic

Inhalation:	May cause respiratory tract irritation. Vapors may cause drowsiness or dizziness.
Skin:	Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.
Eyes:	May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with redness and swelling.
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, and vomiting.

4.3 Indication of any immediate medical attention and special treatment

Symptoms may not appear immediately. Seek medical attention if effects develop or persist and you feel un-well.

5. <u>Fire Fighting Measures:</u>

5.1 Extinguishing media

Carbon dioxide, dry chemical, and alcohol foam

5.2 Special hazards arising from the substance or mixture

CO₂, CO, and hydrocarbons

5.3 Advice for Fire Fighters

Keep up wind of fire. Wear full firefighting turn out gear (full bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. See Section 8 for personal protection.

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 all source of ignition.

6.2 Methods and materials for containment and clean up

For containment: Contain and absorb spill with inert material. Place in suitable container for disposal. Do not flush to sewer or allow to enter waterways. See section 8 for PPE.

For clean up: Take up material and place in a suitable container. Vapors may be heavier than air and may travel along the ground to a distant source of ignition. Provide adequate ventilation.

7. Handling and Storage

7.1 Precautions for safe handling

Keep away from source of ignition. Do not smoke. Take precaution to eliminate static discharge. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Do not eat or drink while handling. Wash hands with soap and water after handling. Use only non-sparking tools.

7.2 Conditions for safe storage including incompatibilities

Keep out of reach of children. Store in a well ventilated place. Do not store above 49°C (120°F).

7.3 Specific end uses

Shelf Life: Shelf life is considered to be 7 – 10 years when properly stored.

8. Exposure Control/Personal Protection:

8.1 Control parameters

Exposure Limits 8 hr TWA:	<u>(OSHA PEL)</u>	<u>(ACGIH TWA)</u>
Petroleum Distillates (Hydrotreated Heavy	not applicable	not applicable
Naphthenic)		
Petroleum Distillates (Stoddard Solvent)	500 ppm	100 ppm
Tricresyl Phosphate	not applicable	not applicable
Ortho Dichlorobenzene	50 ppm	25 ppm
Para Dichlorobenzene	75 ppm	10 ppm

8.2 Exposure controls

Use adequate ventilation to keep exposure below recommended limits. Ensure that eye wash station and safety shower are close to work station.

Hand Protection Equipment: Wear chemical resistant gloves to prevent skin contact.
Eye Protection Equipment: Wear safety glasses or splash goggles to prevent eye contact.
Skin and Body Protection: Wear suitable protective clothing.
Respiration/Ventilation Protection Requirements: Provide good ventilation.
Ingestion Protection Requirements: Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

9. Physical And Chemical Properties:

9.1 Information of basic chemical and physical properties

Physical Form: Color: Odor: Odor Threshold: pH: Melting Point/Freeze Point: Initial Boiling Point: Flash Point (Seta Closed Cup): Flammability Limits: Explosive Lit Evaporation Rate: Flammability Solid/Gas: Vapor Pressure: Vapor Density: Specific Gravity: Solubility in Water: Auto Ignition Temperature: Partition coefficient (n/octonol/water):	thin liquid clear red typical oily not available not applicable – oil based product -51°C (-60°F) not available 53°C (128°F) mits: Upper: not available Lower: not available not available
Viscosity (Kinimatic @ 100 ^o C):	not available 2.0 – 3.0 cSt
9. 2 Other information % NVM by Weight:	75.0%
% VOC Content (California):	24.92%

10. Stability and Reactivity:

10.1 Reactivity

Does not react under normal conditions

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Does not react under normal conditions

10.4 Conditions to avoid

Heat and incompatible materials

10.5 Incompatible materials

Strong oxidizers such as bleach and peroxides

10.6 Hazardous decomposition products

CO₂, CO and hydrocarbons

11. Toxicological Information:

11.1 Information on Toxicological effects

Marvel Mystery Oil	
LD50 – Oral Rat	>2000 mg/Kg
LD50 – Dermal Rabbit	>2000 mg/Kg
LC50 – Inhalation Rat	>20 mg/L (4 hr)

Petroleum Distillates Hydrotreated Heavy Naphthenic (64742-52-5)

LD50 – Oral Rat	>5000 mg/Kg
LD50 – Dermal Rabbit	>5000 mg/Kg
LC50 – Inhalation Rat	>5 mg/L (4 hr)

Tricresyl Phosphate (1330-78-5) LD50 – Oral Rat 3000 mg/Kg

o-Dichlorobenzene (95-50-1)

LD50 – Oral Rat	500 mg/Kg
LD50 – Dermal Rabbit	>10000 mg/Kg
LC50 – Inhalation Rat	8.15 mg/L (4 hr)

p-Dichlorobenzene (106-46-7)

LD50 – Oral Rat	>2000 mg/Kg
LD50 – Dermal Rabbit	>2000 mg/Kg

Skin corrosion/irritation	Causes skin irritation
Serious eye damage/irritation	Based on available data, classification data are not met
Respiratory or skin sensitization	Based on available data, classification data are not met
Germ cell mutagenicity	Based on available data, classification data are not met
Carcinogenicity	Based on available data, classification data are not met
o-Dichlorobenzene (95-50-1)	IARC Group 3 – Not Classified

p-dichlorobenzene (106-46-7)	IARC Group 2B – Possible carcinogen to humans. NTP 1-Evidence of Carcinogenicity 3, Reasonably anticipated to be a human Carcinogen
Reproductive toxicity	Suspected of damaging fertility of un-born child
Specific target organs – single expo	sure
	Based on available data, classification data are not met
Specific target organs - repeated ex	(posure
	Based on available data, classification data are not met
Aspiration hazard	May be fatal if swallowed and enters air ways.
Symptoms/injuries after inhalation	May cause respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Symptoms/injuries after skin contact	t Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.
Symptoms/injuries after eye contact	May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with 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, and vomiting.

12. Ecological Information:

12.1 Toxicity

Not recommended for release into aquatic systems without treatment

12.2 Persistence and degradability

Not established

12.3 Bioaccumulative potential Not established

12.4 Mobility in soil Not established

12.5 Other adverse effects None known

13. Disposal Considerations:

13.1 Waste treatment methods

RCRA Hazardous Waste:	Regulated as a hazardous waste (D-001 Ignitable).
Waste Disposal Method:	Dispose of in accordance with local, state and federal
	regulations
Waste Disposal Vessel:	Metal drums are recommended.

14. Transportation Information:

14.1 UN number 1268

14.2 UN Proper shipping name

Petroleum Distillate n.o.s.

14.3 Transport Hazard class 3

14.4 Packaging group

14.5 Marine Pollutant No

14.6 Transportation in Bulk Not applicable

14.7 Special precautions Use limited quantities

15. Regulatory Information:

15.1 US Federal Regulations

TSCA Status: All ingredients are commercially available and listed by the manufacturer under TSCA.

15.2 Foreign Regulations

Canadian Status: All materials contained in this product are listed on the Canadian Domestic Substance List (DSL). Consult Turtle Wax, Inc. regarding status of ingredients.

European Union: All materials contained in this product are listed on EINECS.

AICS: All materials are registered for AICS (Australia)

15.3 State Regulations

State Regulatory Information:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state.

California Prop 65:

CAS Number	Concentration	State Code
p-Dichlorobenzene (106-46-7	7) <0.1%	Cancer
15.4 HMIS & NFPA Classifi	cations	
HMIS Classification:	Flammability	2 2 0
NFPA Classification:		2

	Reactivity	0
15.5 Discontinued SKU's	All discontinued SKU	's used this same formula.

MM080, MM085, MM85R, MM086, MM088R, MM089

16. Other Information:

Reason For Issue	Address Update
Prepared By	James Heidel
Preparer's Title	Technical Director, R&D
SDS Administrator	Jean Mayszak - Technical Compliance Manager, R&D
Approval Date	January 26, 2017
Supersedes Date	March 10, 2015
Revision Number	#12

This information is, to the best of Turtle Wax, Inc.'s knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitableness and completeness of such information for their own particular use.



Material Safety Data Sheet

	 Product and Company Identifica 	uon
Supplier Name	Pyramex Safety Products, LL	C
Address (number, street, state & zip code)	281A Moore Lane	
	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	
Trade Names and Synonyms		CT100SP, LCTAHS, LCTFAS,
	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.	
		NA
	May be harmful if inhaled. Avoid breathin	
Inhalation	respiratory tract. May cause central nerve	ous system depression with hausea,
	headache, dizziness, and vomiting.	
Skin	May be harmful in contact with skin. May	cause irritation.
Ingestion	May be harmful if swallowed. May cause	gastro-intestinal irritation, nausea,
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 method conditions	reproductive disorder(s). Skin Disorders.	•
Interactions with other Chemicals	Use of Alcoholic beverages may enhance	
Section III -	Composition/Information on Ingre	dients
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.	
0 ///11	Wash well with soap and water. If irritation	n persists, or allergic reaction occurs
SKIN	call a physician.	
	Remove to fresh air and give oxygen if ne	eded. If not breathing, give artificial
Inhalation	respiration and call for Medical assistance	
	DO NOT induce vomiting. Rinse Mouth.	
Ingestion	anything by mouth to an unconscious per	
Notes to Physicians	Treat symptomatically	

	Se	ection V - Fire-Fighting Measures	
Extinguishing Media		Use extinguishing measures the	
		circumstances and the surround	ding environment.
Uniform Fire Code		Irritant: Liquid	
		Combustible Liquid III-B	
Flash Point	to of Oomshurotion	Not available	
Hazardous Byproduc	ts of Compustion	Carbon oxides	
Explosion Data Sensitivity to Mecl	aniaal Impaat	Not sensitive	
Sensitivity to Mech		Yes	
Sensitivity to Stati	c Discilarge	Wear Self contained breathing apparatus p	ressure-demand MSHA/NIOSH
Protective Equipment	t	approved (or equivalent), and full protective	
Special Precautions -	NFPA		
Health Hazard		2	
Flammability		1	
Stability		0	
		on VI - Accidental Release Measures	
Personal Precautions	;	Use personal protective equipment. Avoid	contact with skin and eyes. Remove
		all sources of ignition.	
Containment Methods	S	Prevent further leakage or spillage if safe to	o do so.
Clean-up Methods		Use personal protective equipment. Soak	up with absorbent material. Pick up
		and transfer to properly labeled containers.	
	Se	ection VII - Handling and Storage	
		Handle in accordance with good industrial	hygiene and safety practices. Avoid
Landing		contact with skin and clothing. Wear perso	
Handling		from open flames, hot surfaces and source	
		children.	0
		Keen container tightly closed. Keen away	from open flames, bot surfaces and
Storage		Keep container tightly closed. Keep away sources of ignition. Keep out of the reach	•
Storage	Section VIII	sources of ignition. Keep out of the reach of	of Children.
-	Section VIII		of Children.
Exposure Guidelines		sources of ignition. Keep out of the reach of Exposure Controls/Personal Prote	of Children. ection
Exposure Guidelines Chemical Name	ACGIH TLV	sources of ignition. Keep out of the reach of Exposure Controls/Personal Prote	of Children. ection NIOSH IDLH
Exposure Guidelines	ACGIH TLV +400 ppmSTEL	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm	of Children. ection
Exposure Guidelines Chemical Name	ACGIH TLV	sources of ignition. Keep out of the reach of Exposure Controls/Personal Prote	of Children. ection NIOSH IDLH IDLH:2000 ppm 10% LEL
Exposure Guidelines Chemical Name	ACGIH TLV +400 ppmSTEL	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3	of Children. ection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM
Exposure Guidelines Chemical Name	ACGIH TLV +400 ppmSTEL	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3	of Children. ection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3
Exposure Guidelines Chemical Name	ACGIH TLV +400 ppmSTEL	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3	of Children. Ection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3
Exposure Guidelines Chemical Name Isopropyl Alcohol	ACGIH TLV +400 ppmSTEL TWA: 200 ppm	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm	Dif Children. Ection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3 STEL:500 PPM
Exposure Guidelines Chemical Name	ACGIH TLV +400 ppmSTEL	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm	DICLH: 700 ppm
Exposure Guidelines Chemical Name Isopropyl Alcohol	ACGIH TLV +400 ppmSTEL TWA: 200 ppm	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3	DIDLH: 700 ppm TWA: 5 ppm
Exposure Guidelines Chemical Name Isopropyl Alcohol	ACGIH TLV +400 ppmSTEL TWA: 200 ppm	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm	DICLH: 700 ppm
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin	DICHINGREN.
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm	DICHINGREN.
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S S	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S	DICHINGREN.
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S cquipment ion	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required	DICHINGREN.
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S cquipment ion	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S	DICHINGREN.
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S cquipment ion	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required Protective gloves	Dif Children. Pection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3 STEL: 500 PPM IDLH: 700 ppm TWA: 5 ppm TWA: 5 ppm TWA: 24 mg/m3 ystems
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S cquipment ion	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required Protective gloves If exposure limits are exceeded or irritation	bf Children. Pection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3 STEL: 1225 mg/m3 STEL:500 PPM IDLH: 700 ppm TWA: 5 ppm TWA: 5 ppm TWA: 24 mg/m3 ystems is experienced. NIOSH/MSHA
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect Skin & Body Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S quipment ion ction	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required Protective gloves If exposure limits are exceeded or irritation approved respiratory protection should be of	bf Children. Pection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3 STEL: 1225 mg/m3 STEL:500 PPM IDLH: 700 ppm TWA: 5 ppm TWA: 5 ppm TWA: 24 mg/m3 ystems is experienced. NIOSH/MSHA worn. Positive pressure supplied air
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S quipment ion ction	sources of ignition. Keep out of the reach of OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required Protective gloves If exposure limits are exceeded or irritation approved respiratory protection should be v respirators may be required for high airborn	bf Children. Pection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3 STEL: 1225 mg/m3 STEL:500 PPM IDLH: 700 ppm TWA: 5 ppm TWA: 5 ppm TWA: 24 mg/m3 ystems is experienced. NIOSH/MSHA worn. Positive pressure supplied air ne contaminant concentrations.
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect Skin & Body Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S quipment ion ction	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required Protective gloves If exposure limits are exceeded or irritation approved respiratory protection should be or respirators may be required for high airborr Respiratory protection must be provided in	bf Children. Pection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3 STEL: 1225 mg/m3 STEL:500 PPM IDLH: 700 ppm TWA: 5 ppm TWA: 5 ppm TWA: 24 mg/m3 ystems is experienced. NIOSH/MSHA worn. Positive pressure supplied air ne contaminant concentrations.
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect Skin & Body Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S quipment ion ction	sources of ignition. Keep out of the reach of OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required Protective gloves If exposure limits are exceeded or irritation approved respiratory protection should be v respirators may be required for high airborn	bf Children. Pection NIOSH IDLH IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3 STEL: 1225 mg/m3 STEL:500 PPM IDLH: 700 ppm TWA: 5 ppm TWA: 5 ppm TWA: 24 mg/m3 ystems is experienced. NIOSH/MSHA worn. Positive pressure supplied air ne contaminant concentrations.
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect Skin & Body Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S quipment ion ction	sources of ignition. Keep out of the reach of - Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:980 mg/m3 (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required Protective gloves If exposure limits are exceeded or irritation approved respiratory protection should be or respirators may be required for high airborr Respiratory protection must be provided in	bf Children. ection IDLH:2000 ppm 10% LEL TWA:400 PPM TWA: 980 mg/m3 STEL: 1225 mg/m3 STEL: 500 PPM IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m3 ystems is experienced. NIOSH/MSHA worn. Positive pressure supplied air ne contaminant concentrations. accordance with current local
Exposure Guidelines Chemical Name Isopropyl Alcohol Supplier Trade Secret Engineering Measure Personal Protective E Eye & Face Protect Skin & Body Protect	ACGIH TLV +400 ppmSTEL TWA: 200 ppm TWA: 20 ppm S quipment ion ction	sources of ignition. Keep out of the reach of Exposure Controls/Personal Prote OSHA PEL TWA:400ppm TWA:980mg/m3 (vacated) TWA: 400 ppm (vacated) TWA:400 ppm (vacated) TWA:980 mg/m3 (vacated) STEL: 1225 mg/m3 (vacated) STEL: 500 ppm TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 Skin Showers. Eyewash Stations. Ventilation S No special equipment required Protective gloves If exposure limits are exceeded or irritation approved respiratory protection should be or respirators may be required for high airborr Respiratory protection must be provided in regulations.	Independent of Children. Indepnet

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						
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) Pimphalas promelas 96h 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 Trade Secret A3 Asi Animal Carcinogon Farget Organ Effects Biood, Central Nervous System (CNS), Eyes, Hematopoletic System, Kidney, Liver, Respiratory System, Skin. Section XII - Ecological Information Ecotoxicity Chemical Name Chemical Name Control this product has not been fully investigated. Ecotoxicity effects of component substances follows: Coston XII - Ecological Information Ecotoxicity Chemical Name Chemical Name Chemical Name Coston XII - Ecological Information Ecotoxicity Chemical Name Coston XII - Ecological Information Ecotoxicity Coso=9640 mg/L Pinephales promelas 96h LC50=9640 mg/L Pinephales promelas 96h LC50=1000 mg/L 24 Ecos=1720 mg/L 24 Coso=1720 mg/L 24 Coso=1720 mg/L 24 Coso=1720 mg/L 24 Coso=1720 mg/L 24 Coso=1720 mg/L 24 Coso=125A deg. C Supplier Trade Secret Cosout the appropriate state, regional, or local regulations for additional requirements.	Incompatibility (Mate	rial to Avoid)				
Hazardous Polymerization Will Not Occur Section XI - Toxicological Information Actus Toxicity May be hamful by inhalation, ingestion or skin absorption Chemical Name LD50 oral LD50 bermal LD50 inhalation Water 90 mL/kg (Rat) 12800 mg/kg (Rat) 2.21 mg/L (Rat) 4h Supplier Trade Secret 470 mg/kg (Rat) 2.20 mg/kg (Rat) 2.21 mg/L (Rat) 4h Supplier Trade Secret 470 mg/kg (Rat) 2.20 mg/kg (Rat) 420 mg/kg (Pat) Chemical Name AcGIH IARC NTP OSHA Supplier Trade Secret A3 Acid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogenicity Chemical Name ACGIH IARC NTP OSHA Supplier Trade Secret A3 Acid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogen Target Organ Effects Blood, Central Nervous System (CNS). Eyes, Hematopoletic System, Kidney, Liver, Respiratory System, Skin. Ever, Respiratory System, Skin. Ectooxicity Toxicity to Algae Toxicity to Fish Miccoorganisms Ec50 = 13299 mg/L 48h Isopropyl Alcohol <td< td=""><td>Conditions to Avoid</td><td></td><td></td><td>Heat, Flames, Sp</td><td>arks</td><td></td></td<>	Conditions to Avoid			Heat, Flames, Sp	arks	
Section XI - Toxicological Information Acute Toxicity May be harmful by inhalation, ingestion or skin absorption Chemical Name LD50 Oral LD50 Inhalation, ingestion or skin absorption Water 90 mL/kg (Rat) 12000 mg/kg (Rabit) 72.6mg/L (Rat) 4h Isopropyl Alcohol 4396 mg/kg (Rat) 2207 mg/kg (Rabit) 2.21 mg/L (Rat) 4h Supplier Trade Secret 470 mg/kg (Rat) 2207 mg/kg (Rabit) 450 ppm (rat) 4h Chronic Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogenicity Chemical Name ACGIH IARC NTP OSHA Supplier Trade Secret A3 ACGIH. IARC NTP OSHA Supplier Trade Secret A3 Isopropyl Alcohol Ecotoxicity System, Skin. Ecotoxicity System, Skin. Ecotoxicity System, Skin.						
Acute Toxicity May be harmful by inhalation, ingestion or skin absorption Chemical Name LD50 Oral LD50 Dermal LD50 Inhalation Water 90 mL/kg (Rat) 12800 mg/kg (Rat) 72.6mg/L (Rat) 41 Isopropyl Alcohol 4396 mg/kg (Rat) 2270 mg/kg (Rabit) 2.21 mg/L (Rat) 4h Supplier Trade Secret 470 mg/kg (Rat) 2.21 mg/L (Rat) 4h 2270 mg/kg (Rabit) 2.21 mg/L (Rat) 4h Chronic Toxicity Avoid repeated exposure. Contains a known or suspected reproductive toxin. Carcinogenicity Chemical Name ACGIH IARC NTP OSHA Supplier Trade Secret A3 A3 Animal Carcinogen Target Organ Effects Blood, Central Nervous System (CNS), Eyes, Hematopoletic System, Kidney, Liver, Respiratory System, Skin. Section XII - Ecological Information Ecotoxicity Toxicity to Algae Toxicity to Fish Microorganisms Dahnia Magna (Wate Fleat) Isopropyl Alcohol Ec50>1000mg/L 72h LC50=61200 mg/L EC50 = 13299 mg/L 48h EC50=13299 mg/L 48h EC50=13290 mg/L	Hazardous Polymeriz					
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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
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 isposal Consid This material as s	=0.05 25A deg. C =0.81 25A deg. C derations supplied is not a hazardous	EC50=1720 mg/L 24h
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
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 00 mg/L Lepomis ochirus 96h isposal Consid This material as s Federal regulatior hazardous waste,	=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 i	EC50=1720 mg/L 24h s waste according to terial could become a made to this material, or i
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
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	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 in pressed 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 in pressed 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.

ernational Regulations Mexico - Grade	Moderate risk - Grade 2	
Chemical Name		atus Exposure Limits
Isopropyl Alcoho		Mexico: TWA=26 ppm
1 12		Mexico: TWA=120 mg/m3
		Mexico: STEL=360 mg/m3
		Mexico: STEL=75 ppm
Supplier Trade Sec	ret	Mexico: TWA=400 ppm
		Mexico: TWA=980 mg/m3
		Mexico: STEL=1225 mg/m3
		Mexico: STEL=500 ppm
PR), and the MSDS contains WHMIS Hazard Clas	all of the information required by the CPR.	rd criteria of the Controlled Products Regulations
This product has be PR), and the MSDS contains	all of the information required by the CPR.	rd criteria of the Controlled Products Regulations
This product has be PR), and the MSDS contains WHMIS Hazard Clas B3	all of the information required by the CPR. ss Combustible Liquid Toxic Materials	rd criteria of the Controlled Products Regulations
This product has be PR), and the MSDS contains WHMIS Hazard Clas B3 D2B	all of the information required by the CPR. ss Combustible Liquid Toxic Materials Name	rd criteria of the Controlled Products Regulations
This product has be PR), and the MSDS contains WHMIS Hazard Clas B3 D2B Chemical	all of the information required by the CPR. ss Combustible Liquid Toxic Materials Name Icohol	rd criteria of the Controlled Products Regulations
This product has be CPR), and the MSDS contains WHMIS Hazard Clas B3 D2B Chemical Isopropyl A	all of the information required by the CPR. SS Combustible Liquid Toxic Materials Name Icohol e Secret	rd criteria of the Controlled Products Regulations National Pollutant Release Inventory X X
This product has be PR), and the MSDS contains WHMIS Hazard Clas B3 D2B Chemical Isopropyl A Supplier Trad	all of the information required by the CPR. SS Combustible Liquid Toxic Materials Name Icohol e Secret Section XVI - Other Info	rd criteria of the Controlled Products Regulations National Pollutant Release Inventory X X
This product has be CPR), and the MSDS contains WHMIS Hazard Clas B3 D2B Chemical Isopropyl A Supplier Trad	all of the information required by the CPR. SS Combustible Liquid Toxic Materials Name Icohol e Secret Section XVI - Other Info	National Pollutant Release Inventory X X Drmation
This product has be CPR), and the MSDS contains WHMIS Hazard Clas B3 D2B Chemical Isopropyl A Supplier Trad	all of the information required by the CPR. SS Combustible Liquid Toxic Materials Name Icohol e Secret Section XVI - Other Info this MSDS was obtained from sources, wh	National Pollutant Release Inventory X X Drmation



SAFETY DATA SHEET

1. Identification

in administration	
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	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)		
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

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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			
11. Toxicological informa	tion		
Information on likely routes of	exposure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expect	ed.	
Eye contact	Direct contact with eyes may cause temporary irri	tation.	
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 ef	fects		
Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
Alcohols, C12-15, ethoxylated (C	AS 68131-39-5)		
Acute			
Dermal		0000 // 04//	
LD50	Rat	> 2000 mg/kg, 24 Hours	
Oral LD50	Rat	> 5000 mg/kg	
Distillates Petroleum Hydrotreate	d Light (CAS 64742-47-8)		
<u>Acute</u>			
Dermal LD50	Dabbit		
	Rabbit	> 2000 mg/kg	
Inhalation Vapor			
LC50	Rat	> 0.1 mg/l, 8 Hours	
Oral			
LD50	Rat	> 5000 mg/kg	
d-limonene (CAS 5989-27-5)			
Acute			
Oral			
LD50	Rat	> 2000 mg/kg	
Neopentyl Glycol (CAS 126-30-7)			
Acute			
Oral	D-4		
LD50	Rat	> 6400 mg/kg	
Phenoxyethanol (CAS 122-99-6) <u>Acute</u>			
Dermal			
LD50	Rabbit	> 2200 mg/kg, 24 Hours	
Oral	5.		
LD50	Rat	1400 mg/kg	
Sodium Dodecanol Sulfosuccinat	e (CAS 5//-11-/)		
<u>Acute</u> Dermal			
LD50	Rabbit	> 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	n	
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 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.	

	possibility	v that large or frequent spills can have a harmfu	I or damaging effect on the environment.
Components		Species	Test Results
Alcohols, C12-15, etho	oxylated (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 H	lydrotreated Light ((CAS 64742-47-8)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
d-limonene (CAS 5989	9-27-5)		
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 Su	Ilfosuccinate (CAS	577-11-7)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	20 - 40 mg/l, 96 hours
sistence and degrada	bility No data is	s available on the degradability of any ingredier	nts in the mixture.
accumulative potentia	al		
Partition coefficient	n-octanol / water (log Kow)	
d-limonene		4.232	
Phenoxyethanol		1.16	
oility in soil	Not estab	nisnea.	

Material name: SCRUBS® Hand Cleaner Towels

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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

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		

eanalis entrigeneing 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	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.		her engineering controls to

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin 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)		
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.		

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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				
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 (CAS 577-11-7)				
<u>Acute</u>				
Dermal LD50	Rabbit	> 10000 mg/kg 24 Hours		
		> 10000 mg/kg, 24 Hours		

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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			
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 E	Evaluation of Carcinogenicity		
d-limonene (CAS 5989-27 OSHA Specifically Regulated	7-5) 3 Not classifiable as to carcinogenicity to humans. d Substances (29 CFR 1910.1001-1053)		
Not listed.			
US. National Toxicology Pro	gram (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			
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 e			
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.	

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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.

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.′ Type	1000) 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 exposure limits.	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.

Inf

Information on toxicological effects		
Acute toxicity	Not expected to be acutely toxic.	
Components	Species	Test Results
3-iodo-2-propynyl-butylcarb	amate (CAS 55406-53-6)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	1.1 g/kg
Alcohols, C12-15, ethoxylat	ted (CAS 68131-39-5)	
Acute		
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)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
Vapor		
LC50	Rat	> 0.1 mg/l, 8 Hours

Components	Species	Test Results	
Oral	Det	> 5000 mallia	
LD50	Rat	> 5000 mg/kg	
D-limonene (CAS 5989-27-5) <u>Acute</u>			
Oral			
LD50	Rat	> 2000 mg/kg	
Glycerin (CAS 56-81-5)		0.0	
Acute			
Oral			
LD50	Rat	18000 mg/kg	
Phenoxyethanol (CAS 122-99-6)			
Acute			
Dermal			
LD50	Rabbit	> 2200 mg/kg, 24 Hours	
Oral			
LD50	Rat	1400 mg/kg	
Propylene Glycol (CAS 57-55-6)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2000 mg/kg, 24 Hours	
Oral		22222	
LD50	Rat	22000 mg/kg	
Sodium Dodecanol Sulfosuccinate	(CAS 577-11-7)		
<u>Acute</u>			
Dermal LD50	Rabbit	> 10000 mg/kg, 24 Hours	
Oral	Rabbit	2 10000 mg/kg, 24 nouis	
LD50	Rat	> 1300 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritatic		
Serious eye damage/eye	Direct contact with eyes may cause temporary irritati		
irritation	Direct contact with eyes may cause temporary initial		
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitizat	ion.	
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 E	valuation of Carcinogenicity		
D-limonene (CAS 5989-27	7-5) 3 Not classifiable as	to carcinogenicity to humans.	
	d Substances (29 CFR 1910.1001-1053)		
OSHA Specifically Regulated Not listed. US. National Toxicology Pro	d Substances (29 CFR 1910.1001-1053) gram (NTP) Report on Carcinogens		
OSHA Specifically Regulated Not listed. US. National Toxicology Pro- Not listed.	gram (NTP) Report on Carcinogens	r developmental effects.	
OSHA Specifically Regulated Not listed. US. National Toxicology Pro		r developmental effects.	
OSHA Specifically Regulated Not listed. US. National Toxicology Pro- Not listed. Reproductive toxicity Specific target organ toxicity -	gram (NTP) Report on Carcinogens This product is not expected to cause reproductive o	r developmental effects.	
OSHA Specifically Regulated Not listed. US. National Toxicology Pro- Not listed. Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	gram (NTP) Report on Carcinogens This product is not expected to cause reproductive o Not classified.	r developmental effects.	

Further information

This product has no known adverse effect on human health.

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	
3-iodo-2-propynyl-butylcarba	amate (CAS 554	406-53-6)		
Aquatic	·			
Acute				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.05 - 0.089 mg/l, 96 hours	
Alcohols, C12-15, ethoxylate	ed (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 Hydrot	reated Light (C	AS 64742-47-8)		
Aquatic				
Acute				
Fish	LC50	Bluegill (Lepomis macrochirus)	2.2 mg/l, 4 days	
D-limonene (CAS 5989-27-8	5)			
Aquatic				
Acute				
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	
Glycerin (CAS 56-81-5)			-	
Aquatic				
Acute				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours	
Phenoxyethanol (CAS 122-9	99-6)			
Aquatic				
Acute				
Fish	LC50	Fathead minnow (Pimephales promelas)	337 - 352 mg/l, 96 hours	
Propylene Glycol (CAS 57-5	5-6)			
Aquatic	,			
Acute				
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours	
Sodium Dodecanol Sulfosuo	cinate (CAS 57			
Aquatic		,		
Acute				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	20 - 40 mg/l, 96 hours	
sistence and degradability	No data is a	available on the degradability of any ingredier	nts in the mixture.	
accumulative potential				
Partition coefficient n-octa	anol / water /lo	a Kow)		
D-limonene		4.57		
Glycerin		-1.76		
Phenoxyethanol		1.16		
Propylene Glycol	Net	-0.92		
pility in soil	Not establis			
er adverse effects	None know	n.		

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.

MATERIAL SAFETY DATA SHEET

SPOTCHECK[®] DEVELOPER SKD-S2

1. IDENTIFICATION

Company:	MAGNAFLUX
Address:	3624 West Lake Avenue, Glenview, Illinois 60026
Telephone No.:	847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).
Product Use:	Penetrant inspection developer
Packages:	1 gallon can, 5 gallon pail, 55 gallon drum, aerosol
NFPA Rating:	Health 1, Flammability 3, (aerosol 4), Reactivity 0
PIN (Canada):	UN 1993
Revision Date:	September 5, 2012

2. COMPOSITION/INFORMATION ON INGREDIENTS

SPOTCHECK®

Ingredient	Wt./Wt.%	CAS#	TLV	PEL	LD ₅₀	LC_{50}
2-propanol	40 - 70	67-63-0	400 ppm	400 ppm	3.6 g/kg(oral/mouse	Not available
2-propanone	10 – 30	67-64-1	750 ppm	750 ppm	6 g/kg (oral/rat)	Not available
Isobutane (propellent – aerosol only)	30	75-28-5	Not available	1000 ppm	Not available	Not available
Talc	1 - 3	14807-96-6	Not available	2 mg/me	Not available	Not available

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Extremely flammable white liquid and aerosol. Fast evaporating vapors can reach hazardous levels quickly in unventilated spaces.

POTENTIAL HEALTH EFFECTS & SIGNS AND SYMPTOMS OF EXPOSURE:

Skin Contact: Can irritate by removing natural skin oils on long or repeated exposures.

Eyes: Irritating, but does not damage eye tissue.

Inhalation: Causes dizziness and nausea.

Ingestion: Not significant in small (mouthful) amounts.

Medical conditions known to be aggravated by exposure to product: None

4. FIRST AID

Skin Contact:	Remove contaminated clothing. Wash exposed areas with soap and water. Use soothing lotion.	
Eyes:	Rinse carefully under upper and lower eyelids using plenty of water.	
Inhalation:	Remove to fresh air if dizzy or nauseated.	
Ingestion:	Do not induce vomiting. Accidental ingestion of a single mouthful is not expected to cause significant harm.	
NOTE: In all severe cases, contact physician immediately. Local telephone operators can furnish number of regional poison control center.		

5. FIRE HAZARD

Conditions of flammability:	Non-aerosol and aerosol: Ignition will occur if used near flames, arcs or other ignition sources.
Flash point:	2°F (-16°C) (Pensky-Martens closed cup).
Flammable limits in air:	2% to 15%.
Extinguishing media:	Carbon dioxide, foam, water.
Special fire fighting procedures:	Keep containers cool with water spray.
Hazardous combustion products:	Soot, oxides of carbon.
Unusual fire hazards:	Aerosol cans may burst over 130°F (54°C) and add to existing fire.

6. ACCIDENTAL RELEASE MEASURES

Turn off or remove sources of ignition. Mop up or sweep up with absorbent. (For disposal, see Section 13.)

7. HANDLING AND STORAGE

Avoid breathing vapors. Avoid eye contact. Avoid repeated or prolonged skin contact. Store away from heat source. Do not spray around arcs or flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls:	Use where ventilation will carry vapors away from occupied areas.
Personal protection :	Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable.
	Respirator with filter if sprayed in enclosed, unventilated space.



A Division of Illinois Tool Works Inc. 3624 WEST LAKE AVENUE ■ GLENVIEW, ILLINOIS 60026 TEL 847.657.5300 ■ FAX 847.657.5388 www.magnaflux.com

9.	PHYSICAL PROPERTIES			
9.	Initial boiling point (bulk):	132° F (55°C) (ASTM D-86)	Vapor pressure:	Bulk: 150mm @ 100°F (38°C). Aerosol: 65 psi @ 75°F (24°C)
	Percent volatile:	90%	Vapor density:	3
	Density/sp. gravity:	0.87	Evaporation rate:	0.4 of ether
	Water solubility:	90	Appearance:	White liquid
	pH:	Neutral	Odor:	Alcohol odor
10.	STABILITY AND REACTIVITY	Stable		
	Stability:	Stable None		
	Incompatibility: Hazardous decomposition products:	When burning, soot, oxides of carbon		
	Reactivity:	None		
	Redelivity.	None		
11.	TOXICOLOGICAL INFORMATION Carcinogenicity:	Contains no known or suspected carcinogens	s listed with OSHA, IAI	RC, NTP, or ACGIH.
	Threshold limit value (Bulk):	400 ppm		
	WHMIS information (Canada):	According to available information, the ingrec teratogenicity, mutagenicity, skin sensitization		
12.	ECOLOGICAL INFORMATION No data is available on SKD-S2.			
13.	DISPOSAL			
-	Send to a licensed waste facility for pro	pper disposal.		
	RCRA:	Hazardous waste.		
	U.S. EPA Waste Number:	D001		
14.		elines, in all cases refer to 49 CFR for prope	r classification)	
	U.S. DOT: 49 CFR 172.101 Hazardou		Aaraaal	
	Proper shipping name:	<u>Non-Aerosol</u> Flammable Liquid, n.o.s.	<u>Aerosol</u> Consumer commodi	ts /
	Troper snipping name.	(Isopropanol, acetone)	Consumer commou	ty
	Hazard class or division:	3	ORM-D	
	Identification No.:	UN1993	None	
	Packing Group:		None	
	· · · · · · · · · · · · · · · · · · ·			
	IATA: List of Dangerous Goods	Non-aerosol	Aerosol	
	Proper shipping name:	Flammable liquid, n.o.s.	Aerosols, flammable	
		(Isopropanol, Acetone)		
	Hazard class or division:	3	2.1	
	Identification No.:	UN1993	UN1950	
	Packing Group:	II	-	
	IMDG: General Index	Non-aerosol	Aerosol	
	Proper shipping name:	FLAMMABLE LIQUID, N.O.S.	AEROSOLS	
	i topol olippilig hallor	(ISOPROPANOL, ACETONE)		
	Hazard class or division:	3.2	2.1	
	Identification No.:	UN1993	UN1950	
	Packing Group:	II	-	
15.	REGULATORY INFORMATION			
	TSCA: All ingredients are	listed in TSCA inventory		
	CERCLA:	listed in TSCA inventory. Reportable quantity (RQ) for Acetone = 5000	lbs	
	SARA TITLE III, Section 313:	Acetone.	103.	
		This and had a stairs to a second of the set		

cause birth defects or other reproductive harm. WHMIS Class (Canada): Non-Aerosol: B-2, D-2B - Aerosol: A, B-5, D-2B

This product contains trace amount of chemicals known to the State of California to cause cancer and to

Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

OTHER INFORMATION 16.

California Proposition 65:

Revision Statement: Review Supersedes: October 26, 2004 Prepared by: Tamie Simmons, R&D Manager



A Division of Illinois Tool Works Inc. 3624 WEST LAKE AVENUE
GLENVIEW, ILLINOIS 60026 TEL 847.657.5300 E FAX 847.657.5388 www.magnaflux.com



MATERIAL SAFETY DATA SHEET

SPOTCHECK [®] DEVELOPER SKD-S2

IDENTIFICATION 1.

COMPANY	:	ITW INDIA PRIVATE LIMITED
ADDRESS	:	PLOT NO 51, 52,207 & 208, PHASE – 2, IDA
		TSIIC, PASHAMMYLARAM,
		MEDAK – 502 307, TELANGANA
		INDIA.
TELEPHONE	:	91 – 8455 – 224710
FAX	:	91 – 8455 – 224709
PRODUCT USE	:	Developer for dye penetrant inspection
PACKAGES	:	Aerosol,1 L,5 L, 20 L & 205 L
NFPA Rating	:	Health 1, Flammability 3(Aerosol Flammability 4), Reactivity 0.
Revision Date	:	May 30, 2015.

HAZARDOUS INGREDIENTS 2.

Ingredient	Wt/wt%	CAS#	TLV	PEL	LD 50	LC50
Propan-2-ol	40-70%	67-63-0	400 ppm	400 ppm	3.6g/kg (oral/mouse)	NA
Propan-2-one	10-30%	67-64-1	750 ppm	750 ppm	6g/kg (oral/rat)	NA
Isobutane(propellant – aerosol only)	30%	75-28-5	NA	1000 ppm	NA	NA
Talc	1-3%	14807-96- 6	NA	2mg/m3	NA	NA

HAZARDS IDENTIFICATION 3.

EMERGENCY OVERVIEW

Extremely flammable white liquid and aerosol. Fast evaporating vapors can reach hazardous levels quickly in unventilated spaces.

POTENTIAL HEALTH EFFECTS

Skin Contact	: Can irritate by r	emoving natural skin oils	on long or repeated exposures
--------------	---------------------	---------------------------	-------------------------------

- : Irritating but doesnot damage eye tissue. Eyes
- Inhalation : Cause dizziness and nausea

Ingestion : Not significant in small (mouthful) quantities

Medical conditions known to be aggravated by exposure to product: None

FIRST AID 4.

S

Skin Contact	:	Wash off with soap water .Use soothing lotion				
Eyes	:	Rinse carefully under upper and lower eyelids using plenty of water				
Inhalation	:	Remove to fresh air if dizzy or nauseated				
Ingestion	:	Do not induce vomiting. Accidental ingestion of a small mouthful is not expected to cause significant harm				
NOTE: In all severe cases, contact physician immediately.						

FIRE HAZARD 5

Conditions of flammability	: Bulk & Aerosol : Ignition will occur if used near flames, arcs or any other ignition source
Flash point	: 2 deg F (-16 deg C) (PMCC)
Flammable limits in air	: 2 to 15%
Extinguishing media	: Carbon dioxide , Foam,Water
Special fire fighting procedures	: Keep containers cool with water spray.
Hazardous combustion products	: Smoke,soot,oxides or carbon
Unusual fire hazards	: Aerosol containers may burst at temperatures over 54 deg C and spray contents into a fire

ACCIDENTAL RELEASE MEASURES 6.

Turn off or remove source of ignition. Mop up or sweep up with absorbent(For disposal , see Section 13)

7. HANDLING AND STORAGE

Store away from heat source. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid breathing spray mist.Donot spray around arcs or flames

MSDS/SKD S2/03 dated 07/2015

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ISO 9001 Å ISO 14001 **OHSAS 18001**

ITW India Private Limited, Plot no:51, 52, 207 & 208, Phase -2, IDA, TSIIC, Pashammylaram, Medak Dist.-502307, Telangana State, India Telephone: +91 8455 224710. Facsimile: +91 8455 224709. E-mail: magnafluxinfo@magnafluxindia.com, Website: www.magnaflux.com



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls	:	None, unless sprayed. Use where ventilation will carry spray mist away from occupied areas
Personal protection	:	Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable.
		Respirator with filter if sprayed in enclosed unventilated space.

9. PHYSICAL PROPERTIES

Initial boiling point (bulk)	:	Min 55 deg C	Vapor pressure :	Aerosol 65 psi@24degC,Bulk150 mm@38degC
Percent volatile	:	90%	Vapor density :	3
Density/sp. gravity	:	0.8	Evaporation rate :	0.4 of ether
Water solubility	:	0 (emulsifies into water)	Appearance :	White liquid
pH	:	Neutral	Odor :	Alcohol odour

10. STABILITY AND REACTIVITY

Stability	:	Stable
Incompatibility	:	None
Hazardous decomposition products	:	Soot, oxides of carbon and nitrogen when burning
Reactivity	:	None

11. TOXICOLOGICAL INFORMATION

Carcinogenicity	:	Contains no known or suspected carcinogens listed with OSHA, IARC, NTP or ACGIH
Threshold limit value	:	400 ppm
WHMIS information (Canada)		According to available information, the ingredients have not been found to show reproductive toxicity,
		Teratogenicity, Mutagenicity, Skin sensitization, or Synergistic toxic effects with other material.

12. ECOLOGICAL INFORMATION

No data is available on SKD-S2

13. DISPOSAL

Send to a licensed waste facility for proper disposal. RCRA : Hazardous waste U.S EPA Waste Number : D001

14. TRANSPORTATION

U.S.DOT: 49 CFR 172.101 Hazardous Material Table

	i iluzuiu		
		<u>Non-aerosol</u>	Aerosol
Proper shipping name	:	Flammable liquid,n.o.s	Consumer commodity
		(Isopropanol, acetone)	
Hazard class or division	:	3	ORM-D
Identification No.	:	UN 1993	None
Packing Group	:	II	None
IATA : List of Dangerous	s Goods		
_		<u>Non-aerosol</u>	Aerosol
Proper shipping name	:	Flammable liquid,n.o.s	Aerosols,flammable
		(Isopropanol, acetone)	
Hazard class or division	:	3	2.1
Identification No.	:	UN 1993	UN 1950
Packing Group	:	II	-
IMDG : General Index			
		<u>Non-aerosol</u>	<u>Aerosol</u>
Proper shipping name	:	Flammable liquid,n.o.s	Aerosols
		(Isopropanol, acetone)	
Hazard class or division	:	3	2.1
Identification No.	:	UN 1993	UN 1950
Packing Group	:	II	-

MSDS/SKD S2/03 dated 07/2015

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1SO 9001 ISO 14001 PNV OHSAS 18001 ITW India Private Limited, Plot no:51, 52, 207 & 208, Phase ·2, IDA, TSIIC, Pashammylaram, Medak Dist.-502307, Telangana State, India Telephone: +91 8455 224710. Facsimile: +91 8455 224709. E-mail : magnafluxinfo@magnafluxindia.com, Website: www.magnaflux.com



15. REGULATORY INFORMATION

TSCA CERCLA SARA TITLE III, Section 313 California Proposition 65		All ingredients are listed in TSCA inventory. Reportable quantity (RQ) for Acetone = 5000 lbs. Acetone This product contains trace amount of chemicals known to the State of California to cause cancer and to cause birth defects or other reproductive harm.
WHMIS Class (Canada)	:	Non-Aerosol : B-2, D2-B Aerosol : A,B-5,D2-B

Note ; This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

16. OTHER INFORMATION

Revision Statement: Correction of IMDG hazard classPrepared by: Sunil N S, Q.C Dept..

MSDS/SKD S2/03 dated 07/2015

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ISO 9001 ISO 14001 DNV OHSAS 18001 ITW India Private Limited, Plot no:51, 52, 207 & 208, Phase ·2, IDA, TSIIC, Pashammylaram, Medak Dist.-502307, Telangana State, India Telephone: +91 8455 224710. Facsimile: +91 8455 224709. E-mail : magnafluxinfo@magnafluxindia.com, Website: www.magnaflux.com

Regd. Office: ITW India Private Limited, Level 1, Lotus Plaza, 732/1, Mehrauli Gurgaon Road, Sector · 14, Gurgaon · 122 001, Haryana, India. Telephone : +91 · 124 · 4284381, Facsimile : +91 · 124 · 4284389, E-mail : infoindia@itw.com Corporate Identity Number (CIN) : U32301HR1979PTC038643

MATERIAL SAFETY DATA SHEET

SPOTCHECK[®] PENETRANT SKL-SP1

1.	Company:	MAGNAFLUX
	Address:	3624 West Lake Avenue, Glenview, Illinois 60026
	Telephone No.:	847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).
	Product Use:	Visible inspection penetrant.
	Packages:	1 gallon and 5 gallon pails, 20 gallon drums, 55 gallon drums, Totes, aerosols, pens
	NFPA Rating:	Health 1, Flammability 1, (Aerosol Flammability 4), Reactivity 0
	PIN (Canada):	None
	Revision date:	May 1st, 2012

2. HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt.%</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
		8042-47-5 or				
White mineral oil (petroleum)	60-80	64742-47-8	5 mg/m ³	5 mg/m ³	not avail.	not avail.
Phthalic Esters	5-25	71888-89-5	5mg/m ³	not avail.	not avail.	not avail.
Liquefied petroleum gasses						
(propellant, aerosol only)*	30	68476-86-8	not avail.	1000 ppm	not avail.	not avail.
*Aerosol Package Only						

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Bland, oily liquid which may irritate the skin and eyes. Bulk material is difficult to ignite, but will burn vigorously if engulfed in fire. Aerosol is extremely flammable.

POTENTIAL HEALTH EFFECTS, AND SIGNS AND SYMPTOMS OF EXPOSURE:

Skin contact:	Can irritate by removing natural skin oils on long or repeated exposures.
Eyes:	May irritate.
Inhalation:	Not significant at room temperatures. When heated or sprayed, vapors may cause dizziness and nausea.
Ingestion:	Not significant in small (mouthful) amounts.
Medical conditions knowr	to be aggravated by exposure to product: None

4. FIRST AID

Skin Contact:	Wash off with soap and water. Use soothing lotion.
Eyes:	Rinse carefully under upper and lower eyelids using plenty of water.
Inhalation:	Remove to fresh air if dizzy or nauseated.
Ingestion:	Do not induce vomiting. Accidental ingestion of a small mouthful is not expected to cause significant harm.
NOTE: In all severe case	s, contact physician immediately. Local telephone operators can furnish number of regional poison control center.

5. FIRE HAZARD

Conditions of flammability:	Aerosol: Spraying near an ignition source will ignite spray mist.
	Bulk: None unless heated over 200°F (93°C) near ignition source.
Flash point (Bulk):	Min. 200°F (93°C) (Pensky-Martens closed cup)
Flammable limits in air:	1% to 6%
Extinguishing media:	Carbon dioxide, foam
Special fire fighting procedures:	Keep containers cool with water spray. Do not spray water directly on burning SKL-SP1. It may float and spread the fire.
Hazardous combustion products:	Smoke, soot, oxides of carbon and nitrogen.
Unusual fire hazards:	Aerosol cans may burst at temperatures over 130°F (54°C) and spray contents into a fire.

6. ACCIDENTAL RELEASE MEASURES

Mop up or sweep up with absorbent. (For disposal, see Section 13.)

7. HANDLING AND STORAGE

Store away from heat source. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid breathing spray mist. Do not spray around arcs or flames.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

 Controls:
 None, unless sprayed. Use where ventilation will carry spray mist away from occupied areas.

 Personal protection:
 Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable. Respirator with filter if sprayed in enclosed unventilated space.



9. PHYSICAL PROPERTIES

Percent volatile:

Water solubility:

pH:

Density/sp. gravity:

 Initial boiling point (bulk)
 Min. 455°F (230°C) (ASTM D-86)

 Vapor pressure: Aerosol:
 60 psi @ 75°F (24°C)Bulk: <0.10 mm @ 70°F (21°C)</td>

 None (30% in aerosol)
 Vapor density: Heavier than air

 0.89
 Evaporation rate: Negligible

 0
 Appearance: Dark red oily liquid

 Neutral
 Odor: Mild oily odor

10. STABILITY AND REACTIVITY

Stability:StableIncompatibility:NoneHazardous decomposition products:Reactivity:None

None products: Soot, oxides of carbon and nitrogen when burning None

11. TOXICOLOGICAL INFORMATION

 Carcinogenicity:
 Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.

 Threshold limited value:
 5 mg/m³ for oily mist.

 WHMIS information (Canada):
 No human information is available for teratogenicity, reproductive toxicity,

No human information is available for teratogenicity, reproductive toxicity, and mutagenicity. No reports of toxicological synerism were located. The ingredients have not been found to show skin sensitization.

12. ECOLOGICAL INFORMATION

No data is available on SKL-SP1. It floats on water and can be skimmed off. Its low vapor pressure may exempt it from VOC restrictions. The hydrocarbon propellant is not an ozone depleter.

13. DISPOSAL

As a non-hazardous oil waste, incinerate or send to waste handler who can blend it into secondary fuels. Empty aerosol cans before disposal.

14. TRANSPORTATION

U.S. DOT: 49 CFR 172.101 Hazardous Materials Table

U.S. DOT: 49 CFR 1/2.101 Hazardo	<u>1 gal, 5 gal</u>	20 gal, 55 gal. & Totes
<u>Aerosol</u> Proper shipping name:	None, not restricted	None, not restricted
Consumer commodity Hazard class or division: ORM-D	None	None
Identification No.:	None	None
Packing Group: None	None	None
IATA: List of Dangerous Goods	<u>1 gal, 5 gal</u>	Bulk
<u>Aerosol</u> Proper shipping name: Aerosols, flammable	None, not restricted	None, not restricted
Aerosols, nannable Hazard class or division: 2.1	None	None
Identification No.: UN1950	None	None
Packing Group:	None	None
IMDG: General Index	<u>1 gal, 5 gal</u>	Bulk
<u>Aerosol</u> Proper shipping name: AEROSOLS	None, not restricted	None, not restricted
Hazard class or division: 2.1	None	None
Identification No.: UN1950	None	None
Packing Group:	None	None



15. **REGULATORY INFORMATION**

 TSCA:
 All ingredients are listed in TSCA inventory

 CERCLA:
 Not reportable.

 SARA TITLE III, Section 313:
 No reportable ingredients.

 WHMIS Class (Canada):
 Bulk: D-2A
 Aerosol: A, B-5, D-2A

 Note:
 This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

16. OTHER INFORMATION

Revision Statement:	Sections: 1, 2
Supersedes:	8/15/03
Prepared by:	Shawn Kilty, Research Chemist





SAFETY DATA SHEET

Issuing Date 13-Sept-2013 Revision Date 22-Oct-2014 **Revision Number** 1 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING **GHS** product identifier **Product Name** SCRUBS® In-A-Bucket Other means of identification Product Code(s) 42201, 42210, 42225, 42230, 42256, 42272 **Synonyms** None Recommended use of the chemical and restrictions on use **Recommended Use** Heavy Duty Hand Cleaner Uses advised against None reasonably foreseeable Supplier's details Supplier Address ITW Pro Brands 805 E. Old 56 Highway Olathe, KS 66061 TEL: 1-800-443-9536 **Emergency telephone number Emergency Telephone** 800-535-5053 Infotrac Number 2. HAZARDS IDENTIFICATION Classification This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200). GHS Label elements, including precautionary statements **Emergency Overview**

 Signal Word
 None

 The product contains no substances which at their given concentration are considered to be hazardous to health

 Appearance
 Colorless-blue/white

 Physical State
 Liquid.

 Odor
 Citrus

Precautionary Statements

Prevention

None

General Advice

None

Storage

None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Toxic to aquatic life. Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Alcohols, C12-15, ethoxylated	68131-39-5	1-5	*
Isoparaffinic Hydrocarbon	64742-47-8	1-5	*
Dimethyl adipate	627-93-0	1-5	*
Diethylhexyl sodium sulfosuccinate	577-11-7	1-5	*
D-Limonene	5989-27-5	1-5	*

*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 symptoms persist, call a physician. **Skin Contact** None normally required. Material is designed for skin cleansing. Get medical attention if irritation develops and/or persists. Inhalation Move to fresh air. If symptoms persist, call a physician. Ingestion Not an expected route of exposure. If large quantities of this material are swallowed, call a physician immediately. Most important symptoms/effects, acute and delayed Most Important Symptoms/Effects Not expected to give rise to an acute hazard under normal condition of use. Indication of immediate medical attention and special treatment needed, if necessary Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO₂). Foam. Water spray or fog.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

None in particular

Hazardous Combustion Products Carbon dioxide (CO₂). Carbon monoxide. Hydrocarbons. Hydrogen sulfide. Sulfur dioxide. Soot.

Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge

None. None.

Protective Equipment and Precautions for Firefighters

Use water spray to cool surrounding containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment.

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Avoid release to the environment. See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning UpSmall spillage: Wipe up with absorbent material (e.g. cloth, fleece). Large spillage: Use a
non-combustible material like vermiculite, sand or earth to soak up the product and place
into a container for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with eyes. Do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep container closed when not in use. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Do not contaminate food or feed stuffs. Keep out of the reach of children.

Incompatible Products Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Eyewash stations.

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	None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

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	Liquid Citrus	Appearance Odor Threshold	Colorless-blue/white No information available
<u>Property</u> pH Melting Point/Range Boiling Point/Boiling Range Flash Point	<u>Values</u> 6 No data available 212 °F No data available	<u>Remarks/ - M</u> None known None known None known None known	lethod
Evaporation rate Flammability (solid, gas) Flammability Limits in Air upper flammability limit	No data available No data available	None known None known	
lower flammability limit Vapor Pressure Vapor Density	No data available No data available >1 No data available	None known None known None known	
Relative Density Specific Gravity Water Solubility Solubility in other solvents Partition coefficient: n-octand	0.995 Miscible with water No data available	None known None known None known None known None known	
Autoignition Temperature Decomposition Temperature Viscosity	No data available No data available No data available No data available	None known None known None known	
Flammable Properties	Not flammable		
Explosive Properties Oxidizing Properties	No data available No data available		
Other information			
VOC Content (%)	0%		

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.

Conditions to avoid

Incompatible products.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrocarbons. Hydrogen sulfide. Sulfur dioxide. Soot.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Inhalation	Not an expected route of exposure
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause mild skin irritation.
Ingestion	Not an expected route of exposure.

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. Contains no ingredients above reportable quantities listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
D-Limonene		Group 3	-	-
IADO, (Internetional Annuar for Deserve)				

IARC: (International Agency for Research on Cancer)					
Group 3: Not Classifiable as to its Carcinogenicity to Humans					
Reproductive Toxicity	This product does not contain any known or suspected reproductive hazards.				
STOT - single exposure	None of the ingredients are known to cause specific target organ effects from a single exposure.				
STOT - repeated exposure	None of the ingredients are known to cause specific target organ effects through prolonged or repeated exposure.				
Aspiration Hazard	None of the ingredients are known to be an aspiration hazard.				

Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:LD50 Oral42888mg/kg; Acute toxicity estimateLD50 Dermal329859mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
			Microorganisms	Flea)

		100001 10 10		
Isoparaffinic Hydrocarbon		LC50 96 h: = 45 mg/L		LC50 96 h: = 4720 mg/L
64742-47-8		flow-through (Pimephales		(Den-dronereides
		promelas) LC50 96 h: = 2.2		heteropoda)
		mg/L static (Lepomis		
		macrochirus) LC50 96 h: =		
		2.4 mg/L static		
		(Oncorhynchus mykiss)		
Diethylhexyl sodium		LC50 96 h: 20 - 40 mg/L		EC50 48 h: = 36 mg/L
sulfosuccinate		semi-static (Oncorhynchus		(Daphnia magna)
577-11-7		mykiss) LC50 96 h: < 24		
		mg/L static (Oncorhynchus		
		mykiss) LC50 96 h: = 37		
		mg/L static (Lepomis		
		macrochirus)		
D-Limonene		LC50 96 h: 0.619 - 0.796		
5989-27-5		mg/L flow-through		
5909-21-5		(Pimephales promelas) LC50		
		96 h: = 35 mg/L		
		(Oncorhynchus mykiss)		
Dimethyl glutarate		LC50 96 h: 19.6-26.2 mg/L		EC50 48 h: 122.1 - 163.5
1119-40-0		static (Pimephales promelas)		mg/L (Daphnia magna)
1,3-Propanediol,	EC50 72 h: > 1000 mg/L	LC50 96 h: > 1000 mg/L		EC50 24 h: > 1000 mg/L
2,2-dimethyl-	(Pseudokirchneriella	semi-static (Oryzias latipes)		(Daphnia magna)
126-30-7	subcapitata)			
	EC50 72 h: > 500 mg/L			
	(Desmodesmus subspicatus)			
Isopropyl myristate	EC50 72 h: > 100 mg/L	LC50 96 h: = 8400 mg/L	-	EC50 48 h: = 100 mg/L
110-27-0	(Desmodesmus subspicatus)			(Daphnia magna)
110 21 0		$LC50 \ 96 \ h: = 8400 \ mg/L$		(Bapinia nagila)
		semi-static (Brachydanio		
		rerio)		
2-Phenoxyethanol	EC50 72 h: > 500 mg/L	LC50 96 h: 337 - 352 mg/L	EC50 = 32.4 mg/L 5 min	EC50 48 h: > 500 mg/L
122-99-6				
122-99-0	(Desmodesmus subspicatus)		EC50 = 880 mg/L 17 h	(Daphnia magna)
		promelas) LC50 96 h: = 366		
		mg/L static (Pimephales		
		promelas) LC50 96 h: 220 -		
		460 mg/L static (Leuciscus		
		idus)		
Propylene glycol	EC50 96 h: = 19000 mg/L	LC50 96 h: = 51600 mg/L	EC50 = 710 mg/L 30 min	EC50 24 h: > 10000 mg/L
57-55-6	(Pseudokirchneriella	static (Oncorhynchus		(Daphnia magna) EC50 48
	subcapitata)	mykiss) LC50 96 h: 41 - 47		h: > 1000 mg/L Static
		mL/L static (Oncorhynchus		(Daphnia magna)
		mykiss) LC50 96 h: = 51400		
		mg/L static (Pimephales		
		promelas) LC50 96 h: = 710		
		mg/L (Pimephales		
		promelas)		
Glycerin		LC50 96 h: 51 - 57 mL/L		EC50.24 h > 500 mc''
56-81-5	-		-	EC50 24 h: > 500 mg/L (Daphnia magna)
C-10-0C		static (Oncorhynchus		(Daprinia magna)
		mykiss)		
lodopropynyl butylcarbamate		LC50 96 h: 0.049-0.079		
55406-53-6		mg/L flow-through		
		(Oncorhynchus mykiss)		
		LC50 96 h: 0.05-0.089		
		mg/L (Oncorhynchus		
		mykiss)		
		LC50 96 h: 0.14-0.32 mg/L		
		flow-through (Lepomis		
		macrochirus)		
		LC50 96 h: 0.18-0.23 mg/L		
		flow-through (Pimephales promelas)		

Persistence and Degradability No information available.

Bioaccumulation

No information available.

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.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

California Hazardous Waste
Toxic

14. TRANSPORT INFORMATION

DOT

Not regulated

15. REGULATORY INFORMATION

International Inventories

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory. All components of this product are either listed or are exempt on the TSCA 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).

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.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION						
NFPA	Health Hazard	1	Flammability	0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard	1	Flammability	0	Physical Hazard 0	Personal Protection X

*Indicates a chronic health hazard.

Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
Issuing Date	13-Sep-2013
Revision Date	13-Sep-2013
Revision Note	Initial Release.

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

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER					
Product Name:	SKD-S2 Aerosol				
Product Code:	Not available.				
1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE					
Use:	Non-Destructive Testing.				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
Name/Address:	Magnaflux 155 Harlem Avenue, Glenview, Illinois 60025				
Telephone Number:	847-657-5300				
1.4 EMERGENCY TELEPHONE NUMBER					
Emergency Telephone Number:	CHEMTREC 800-424-93	00			
Date of Preparation:	November 25, 2013	Version #: 1.1			
Section 2: HAZARD(S) IDENTIFICATION					

2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

.

Hazard class

Flammable Aerosol 1 Gases Under Pressure - Compressed Gas Eye irritation 2A Specific target organ toxicity - Single exposure 3 Specific target organ toxicity - Repeated exposure 1

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

Hazard Pictogram:

Signal Word:	Danger
Hazard Statement:	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to lungs through prolonged or repeated exposure.
Prevention:	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
	P a g e

Conforms to OSA HazCom 2012, CPR & NOM-018-STPS-2000 Standards

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Response:	protection. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
Storage:	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.

hands thoroughly after handling. Wear eye protection/face

2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

2 % 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 Yellow = Reactivity White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

Class A - Compressed Gas Class B5 - Flammable Aerosol Class D2A - Chronic Toxic Effects Class D2B - Eye Irritant

WHMIS Hazard Symbols:



WHMIS Signal Word:

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Conforms to OSA HazCom 2012, CPR & NOM-018-STPS-2000 Standards

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DANGER



Ingredient	UN #	H / F/ R / *	CAS No	Wt. %
Isopropanol	UN1219	1/3/0	67-63-0	30 - 49
Petroleum gases, liquefied, sweetened	UN1075	Not available.	68476-86-8	15 - 40
Acetone	UN1090	1/3/0	67-64-1	10 - 30
Ceramic materials and wares, chemicals	Not available.	Not available.	66402-68-4	3 - 7
Talc	Not available.	Not available.	14807-96-6	1 - 5
Silica, crystalline, quartz	Not available.	Not available.	14808-60-7	< 0.1

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, including under lids. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
Skin:	In case of contact, immediately flush skin with plenty of water. 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 cause respiratory tract irritation. May cause drowsiness or dizziness.
Ingestion:	May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
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 FLAMMABILITY

Conforms to OSA HazCom 2012, CPR & NOM-018-STPS-2000 Standards

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SAFETY DATA SHEET

Flammability:

Flammable by WHMIS/OSHA/NOM-018-STPS-2000 criteria.

5.2 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Water, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available. Sensitivity to Static Discharge: Not available.

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

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. Containers may explode when heated.

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. Provide ventilation.
	Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

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. Container may explode if heated. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/ mist/vapors/spray. Do not swallow. Use only outdoors or in a well- ventilated area. When using do not eat, drink or smoke. Use non- sparking tools. (See section 8)
General Hygiene Advice:	Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
7.2 CONDITIONS FOR SAFE S	TORAGE, INCLUDING ANY INCOMPATIBILITIES
Storage:	Keep out of the reach of children. Store locked up. Protect from

a well-ventilated place. (See section 10)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

sunlight. Do not store at temperatures above 50 °C / 122 °F. Store in

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Conforms to OSA HazCom 2012, CPR & NOM-018-STPS-2000 Standards



8.1 CONTROL PARAMETERS

Exposure Guidelines

Occupational Exposure Limits		
Ingredient	OSHA-PEL	ACGIH-TLV
Isopropanol	400 ppm	200 ppm
Petroleum gases, liquefied, sweetened	1000 ppm	1000 ppm
Acetone	1000 ppm TWA; 2400 mg/m ³ TWA	500 ppm
Ceramic materials and wares, chemicals	5 mg/m ³	Not available.
Talc	20 mppcf	2 mg/m ³ (resp)
	((10 mg/m ³)/(%SiO ₂ +2) TWA (resp)) ((30 mg/m ³)/(%SiO ₂ +2) TWA (total))	
	((30 mg/m ³)/(%SiO ₂ +2) TWA (total))	
Silica, crystalline, quartz	((250)/(%SiO ₂ +5) mppcf TWA (resp))	0.025 mg/m ³

8.2 EXPOSURE CONTROLS

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipme	nt:
-----------------------------	-----

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

Skin Protection:

Hand Protection: Chemical-resistant gloves.

Body Protection: Wear suitable protective clothing.

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.

General Health and Safety
Measures: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

3.1 INFORMATION ON DASIC FITSICAL AND CHEMICAL FROFERIES	
Appearance:	White liquid.
Color:	White.
Odor:	Alcohol.
Odor Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid.
pH:	Neutral.
Melting Point/Freezing Point:	Not available.
Initial Boiling Point and Boiling Range:	~ 55 °C (~ 132 °F)

Conforms to OSA HazCom 2012, CPR & NOM-018-STPS-2000 Standards

A 4 INFORMATION ON PASIC DUVSICAL AND CHEMICAL PRODERTIES

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Flash Point:	Not applicable
Evaporation Rate:	0.4 (Ether = 1)
Flammability:	Flammable.
Lower Flammability/Explosive Limit:	2 %
Upper Flammability/Explosive Limit:	15 %
Vapor Pressure:	65 psi @ 24 °C (75 °F)
Vapor Density:	3
Relative Density/Specific Gravity:	0.87
Solubility:	Partial.
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.

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. Contents under pressure. Container may explode if heated. Do not pierce or burn, even after use.

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.

10.5 INCOMPATIBLE MATERIALS

Strong 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

Likely Routes of Exposure:

Skin contact, eye contact, inhalation, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

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Conforms to OSA HazCom 2012, CPR & NOM-018-STPS-2000 Standards

Trade Name: SKD-S2 Aerosol

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- **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.
- **Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
- Inhalation: May cause respiratory tract irritation. May cause drowsiness or dizziness.

Acute Toxicity:

Ingredient	IDLH	LC50	LD50
			Oral 4396 mg/kg, rat
		Inhalation 72.6	Dermal 12800 mg/kg, rat
Isopropanol	2,000 ppm	mg/L 4h, rat	Dermal 12870 mg/kg, rabbit
Petroleum gases,		Inhalation 658	
liquefied, sweetened	Not available.	mg/L 4h, rat	Not available.
		Inhalation 50100	
Acetone	2,500 ppm	mg/m ³ 8h, rat	Oral 5800 mg/kg, rat
Ceramic materials			Oral > 2000 mg/kg, rat
and wares, chemicals	Not available.	Not available.	Dermal > 2500 mg/kg, rabbit
Talc	1,000 mg/m ³	Not available.	Not available.
	25 mg/m ³ (Cristobalite &		
Silica, crystalline,	Tridymite)		
quartz	50 mg/m ³ (Quartz & Tripoli)	Not available.	Oral 500 mg/kg, rat

Calculated o	verall Chemical Acute Toxicity Va	alues
LC50 (inhalation) LD50 (oral) LD50 (dermal)		
> 5 mg/L 4h, rat	> 2000 mg/kg, rat	> 2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Isopropanol	G-A4, I-3
Petroleum gases, liquefied, sweetened	Not listed.
Acetone	G-A4
Ceramic materials and wares, chemicals	Not listed.
Talc	G-A4, I-3
Silica, crystalline, quartz	G-A2, I-1, N-1, O, CP65

* See Section 15 for more information.

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin Corrosion/Irritation:	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation:	Causes serious eye irritation.
Respiratory Sensitization:	Based on available data, the classification criteria are not met.
Skin Sensitization:	Based on available data, the classification criteria are not met.

Page 7 of 10

Trade Name: SKD-S2 Aerosol



STOT-Single Exposure:	May cause drowsiness or dizziness.
Chronic Health Effects:	
Carcinogenicity:	Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	
Developmental:	Based on available data, the classification criteria are not met.
Teratogenici	ty: Based on available data, the classification criteria are not met.
Embryotoxici	ty: Based on available data, the classification criteria are not met.
Fertility:	Based on available data, the classification criteria are not met.
STOT-Repeated Exposure:	Causes damage to lungs through prolonged or repeated exposure.
Aspiration Hazard:	Based on available data, the classification criteria are not met.
Toxicologically Synergistic Materials:	Not available.
Other Information:	Not available.
Sec	tion 12: ECOLOGICAL INFORMATION
2.1 ECOTOXICITY	
Acuto/Chronic Toxicity:	May cause long term adverse offects in the aquatic environmen

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 METHODSDisposal Method:This materia

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other disposal recommendations:

Not available.

Section 14: TRANSPORT INFORMATION

DOT Consumables, Limited Quantity

Conforms to OSA HazCom 2012, CPR & NOM-018-STPS-2000 Standards

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Trade Name: SKD-S2 Aerosol



IATA	UN 1950, Aerosols, Flammable, 2.1
IMDG	UN 1950, Aerosols, 2.1 (Limited Quantity)

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: 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.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Mexico: MSDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Isopropanol	Not listed.	Not listed.	Not listed.	313
Petroleum gases, liquefied,				
sweetened	Not listed.	Not listed.	Not listed.	Not listed.
Acetone	Not listed.	Not listed.	5,000	Not listed.
Ceramic materials and				
wares, chemicals	Not listed.	Not listed.	Not listed.	Not listed.
Talc	Not listed.	Not listed.	Not listed.	Not listed.
Silica, crystalline, quartz	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	Canada DSL/NDSL	USA TSCA
Isopropanol	DSL	Yes.
Petroleum gases, liquefied, sweetened	DSL	Yes.
Acetone	DSL	Yes.
Ceramic materials and wares, chemicals	DSL	Yes.
Talc	DSL	Yes.
Silica, crystalline, quartz	DSL	Yes.
NFPA-National Fi	re Protection Association:	
Health:		2
Fire:		4
Reactivity:	vity: 0	
HMIS-Hazardous Ma	terials Identification Syste	m:

Page 9 of 10

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Conforms to OSA HazCom 2012, CPR & NOM-018-STPS-2000 Standards
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Trade Name: SKD-S2 Aerosol



Health:		2*
Fire:		4
Physical Hazard:		0
Hazard Ratir	ng: 0 = minimal, 1 = slight, 2 = modera	te, 3 = severe, 4 = extreme
SOURCE AGE	ENCY CARCINOGEN CLASSIFICATIO	DNS:
CP65	California Proposition 65	
OSHA (O)	Occupational Safety and Health Administration.	
ACGIH (G)	 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. 	
IARC (I)	 International Agency for Research on Cancer. 1 - The agent (mixture) is carcinogenic to humans. 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 ir 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. 	
NTP (N)	National Toxicology Program. 1 - Known to be carcinogens. 2 - Reasonably anticipated to be carcinogens.	
	Section 16: OTH	ER INFORMATION
Date of Prep	aration: November 25, 2013	
	,	
Expiry Date	November 25, 2016	

	Conforms to OSHA HazCom 2012, CPR & NOM-018-STPS-2000 Standards
Revision Date:	June 9, 2015
Version:	1.1
Expiry Date:	November 25, 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 particular use.

Prepared by:	Nexreg Compliance Inc. Phone: (519) 488-5126
	www.nexreg.com
Prepared for:	Magnaflux

Prepared for:

End of Safety Data Sheet



SPOTCHECK[®] SKC-S

1. **IDENTIFICATION**

Company:MAGNAFLUXAddress:3624 West Lake Avenue, Glenview, Illinois 60026Telephone No.:847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).Product Use:Nondestructive testing materialNFPA Rating:Health 1, Flammability 3, Reactivity 0Revision Date:March 21, 2014

2. HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	PEL	LD ₅₀	LC_{50}
		64742-89-8				
		Or	300ppm		5 g/kg	3400 ppm
Light aliphatic solvent naphtha	60-100	64742-49-0	(8 hr.TWA)	not avail.	(oral/rat)	(4hrs/rat)
Carbon dioxide propellant (Aerosol Only)	3-7	124-38-9	not avail.	5000 ppm	not avail.	not avail.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW Flammable liquid and aerosol. Vapor may cause flash fire. Harmful or fatal if swallowed. Mist or vapor may irritate the respiratory tract. Liquid contact may cause eye and skin irritation. Over- exposure may cause central nervous system (CNS) depression and target organ effects. Spills may create a slipping hazard.

Skin, and Respiratory system.

POTENTIAL HEALTH EFFECTS & SIGNS AND SYMPTOMS OF EXPOSURE:

		COUNCE.
Skin Contact:	Irritating to skin. Repeated exposure may cause	skin dryness or cracking.
Eyes:	Vapors may be irritating to the eye.	
Inhalation:	Vapors expected to be slightly irritating. Vapors r	may cause drowsiness and dizziness.
Ingestion:	Harmful: may cause lung damage if swallowed.	
Medical conditions	known to be aggravated by exposure to product:	Pre-existing medical conditions of the following organ(s) or organ
		system(s) may be aggravated by exposure to this material: Eyes,

4. FIRST AID

FINGT AID	
Skin Contact:	Wash off with soap and water. Do not use ointments. Seek medical attention if tissue appears damaged or if pain or
irritation persists.	
Eyes:	Rinse carefully under upper and lower eyelids using plenty of water. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persists, transport to the nearest medical facility for additional treatment.
Inhalation:	Remove to fresh air if dizzy or nauseated. If rapid recovery does not occur, transport to nearest medical facility for additional
treatment.	
Ingestion:	Do not induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
NOTE: In all sever	re cases, contact physician immediately. Local telephone operators can furnish number of regional poison control center.

5. FIRE HAZARD

_			
(Conditions of flammability:	Bulk and aerosol: Readily ignited in presence of ignition sources.	
	Flash point:	Min. 57°F (14°C) (Pensky-Martens) closed cup.	
	Flammable limits in air:	1% to 6%.	
1	Extinguishing media:	Carbon dioxide, foam	
	Special fire fighting procedures:	Keep containers cool with water spray. Do not spray water directly on burning SKC-S. It will float and spread the fire.	
	Hazardous combustion products:	Smoke, soot, oxides of carbon.	
1	Unusual fire hazards:	Aerosol cans may burst if heated above 130°F (54°C) and spray contents into a fire.	
	Flammable limits in air: Extinguishing media: Special fire fighting procedures: Hazardous combustion products:	1% to 6%. Carbon dioxide, foam Keep containers cool with water spray. Do not spray water directly on burning SKC-S. It will fl and spread the fire. Smoke, soot, oxides of carbon.	oat

6. ACCIDENTAL RELEASE MEASURES

Flammable Liquid! Release causes an immediate fire or explosion hazard. Do not touch or walk through spilled material. Prevent spilled material from entering waterways, sewers, basements, or confined area. Mop up or sweep up with absorbent. Use only non-sparking tools to collect absorbed material. Avoid contact with spilled or released material. Immediately remove all contaminated clothing. (For disposal, see Section 13.)



7. HANDLING AND STORAGE

Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid breathing spray mist. Do not spray near arcs or flames. Use only in well ventilated areas. Wash thoroughly after handling. Storage Level 3 Aerosols per NFPA 30B

8. EXPOSURE CONTROLS/PERSONAL PROTECTION						
	Controls: Use where ventilation will carry spray mist away from occupied areas.					
	Personal protection:	Wear safety glasses to protect eyes. Wear	nitrile rubber gloves	if hand exposure is unavoidable.		
		Respirator with solvent vapor absorbing cartridge if used in enclosed, unventilated space.				
		Warning: Use of this material in spaces	without adequate v	ventilation may result in generation of		
		hazardous levels of flammable vapors and/or inadequate oxygen levels for breathing. Odor is an				
		inadequate warning for hazardous condition		gon lovolo lot zroalining. Gaoi lo all		
9.	PHYSICAL PROPERTIES					
	Initial boiling point (bulk):	Min. 245°F (118°C) (ASTM D-86)	Vapor pressure:	12 and 16 oz.Aerosol: 105psi @ 75°F(24°C)		
				Bulk: 1.5 – 2.0 kPa at 20°C/68.0°F		
	VOC Content (EPA Method 24):	750 g/L	Vapor density:	4.1		
	Density/sp. gravity:	0.76	Evaporation rate:	Fast		
	Water solubility:	0	Appearance:	Clear, colorless liquid		
	pH:	Neutral	Ödor:	Naphtha odor		

Stability: Stable under normal conditions of use Avoid heat, sparks, open flames and other ignition sources. Avoid strong oxidizing agents. Incompatibility: Hazardous decomposition products: A complex mixture of airborne solids, liquids, and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. Reactivity: None TOXICOLOGICAL INFORMATION 11. Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH. Carcinogenicity: Threshold limit value: 300 ppm

WHMIS information (Canada): According to available information, the ingredients have not been found to show reproductive toxicity, teratogenicity, mutagenicity, skin sensitization, or synergistic toxic effects with other materials.

12. ECOLOGICAL INFORMATION

No data is available on SKC-S. It floats on water. Components will evaporate rapidly.

13. DISPOSAL

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. U.S. EPA Waste Number: D001

14. TRANSPORTATION

U.S. DOT: 49 CFR 172.101 Hazardous Materials Table

Non-Aerosol	Aerosol
Petroleum distillates, n.o.s.	Consumables
3	None None
UN1268	None
II	
Non-Aerosol	Aerosol
Petroleum distillates, n.o.s.	Aerosols, flammable
3	2.1
UN1268	UN1950
	Petroleum distillates, n.o.s. 3 UN1268 II <u>Non-Aerosol</u> Petroleum distillates, n.o.s. 3



IMDG: General Index

Proper shipping name: Hazard class of division: Identification No.: Packing Group: Non-Aerosol PETROLEUM DISTILLATES,N.O.S. 3.2 UN1268 II

Aerosol AEROSOLS 2.1 UN1950

15. REGULATORY INFORMATION

TSCA: All ingredients a	nre listed in
TSCA inventory. Canadian DSL:	All
ingredients are listed in the Canadia	n DSL
CERCLA:	VM&P Naphtha (64742-89-8) Reportable Quantity 66,667 lbs.
SARA TITLE III, Section 313:	Xylene, Mixed Isomer (1330-20-7) <0.13%; meta-Xylene (108-38-3)< 0.05%; Ethylbenzene (100- 41-4)< 0.1%; Benzene (71-43-2) <0.005%; Toluene (108-88-3) <0.1%, Naphthalene: <0.002%
California Proposition 65:	Warning: This material may contain trace amounts of chemicals known to the state of California to cause cancer and/or birth defects and/or reproductive harm.
WHMIS Class (Canada):	Non-Aerosol: B-2, D-2B; Aerosol: A, B-5, D-2B
Note: This MSDS has been prepar	ed to meet WHMIS (Canada) requirements with the exception of using 16 headings.

16. OTHER INFORMATION

Revision Statement:	Section 1
Supersedes:	April 1, 2013





Revision Date 11-Nov-2020

SAFETY DATA SHEET

Version 15

1. IDENTIFICATION

Product identifier Product Name

Spray Nine® 32 fl.oz

26832

Other means of identification Product Code

Recommended use of the chemical and restrictions on useRecommended UseLiquid cleanerUses advised againstNo information available

Details of the supplier of the safety data sheet Manufacturer Address ITW Permatex 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502 24-hour emergency phone number Chem-Tel: 800-255-3924 International Emergency: 00+1+ 813-248-0585 Contract Number: MIS0003453

E-mail address: mail@permatex.com

May Also Be Distributed by: ITW Permatex Canada 101-2360 Bristol Circle Oakville, ON Canada L6H 6M5 Telephone: (800) 924-6994

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Clear

Physical state Liquid

Odor Citrus

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) Not applicable

Other Information Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. FIRST AID MEASURES

Description of first aid measures

General advice	If symptoms persist, call a physician.		
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.		
Skin contact	Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.		
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.		
Self-protection of the first aider	Use personal protective equipment as required.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	See section 2 for more information.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media			

Use, Use dry chemical, Carbon dioxide (CO2), Water spray (fog), Alcohol resistant foam

Unsuitable extinguishing media

None

<u>Specific hazards arising from the chemical</u> Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data	
Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None

<u>Protective equipment and precautions for firefighters</u> As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Personal precautions, protective e	quipment and emergency procedures	
Personal precautions	Avoid contact with eyes and skin. Wash thoroughly after handling. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. Use personal protective equipment as required.	
Environmental precautions		
Environmental precautions	See section 12 for additional ecological information. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.	
Methods and material for containm	nent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
	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. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).	
Conditions for safe storage, includ	ling any incompatibilities	
Storage Conditions	Keep from freezing. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.	
Incompatible materials	Strong oxidizing agents	
8. EX	8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Control parameters		
Exposure Guidelines NIOSH IDLH Immediately Dangerou	is to Life or Health	
Other Information	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).	
Appropriate engineering controls		
Engineering Controls	Eyewash stations	

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.
Skin and body protection	For prolonged use, wear protective natural rubber, nitrile rubber, neoprene, or PVC gloves.
Respiratory protection	No protection equipment is needed under normal use conditions. If respiratory irritation is experienced a NIOSH approved air-purifying respirator with organic vapor cartridges or canisters may be required.
General Hygiene Considerations	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties			
Physical state	Liquid		
Appearance	Clear		
Odor	Citrus		
Odor threshold	No information available		
Property_	Values	Remarks • Method	
pH	12.0-12.8	Low free alkalinity	
Melting point / freezing point	No information available	· · · · · · · · · · · · · · · · · · ·	
Boiling point / boiling range	100 °C / 212 °F		
Flash point	> 95 °C / > 203 °F	Tag Closed Cup	
Evaporation rate	< 1	Butyl acetate = 1	
Flammability (solid, gas)	No information available	5	
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	18 mm Hg		
Vapor density	>1	Air = 1	
Relative density	1.02 g/ml		
Water solubility	Soluble in water		
Solubility(ies)	No information available		
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
Other Information	No information available		
Softening point	No information available		
Molecular weight	No information available		
Density Bulk density	No information available		
Bulk density	No information available		
SADT (self-accelerating decomposition temperature)			
decomposition temperature)			

10. STABILITY AND REACTIVITY

<u>Reactivity</u> No information available

<u>Chemical stability</u> Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Keep from freezing. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents

Hazardous Decomposition Products

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

formation on toxicological effects		
Ingestion	Ingestion may cause irritation to mucous membranes.	
Skin contact	May cause skin irritation and/or dermatitis.	
Eye contact	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.	
Inhalation	May cause irritation of respiratory tract.	

Inf

Symptoms	No information available.
Delayed and immediate effects as	s well as chronic effects from short and long-term exposure
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
The following values are calculat	ed based on chapter 3.1 of the GHS document .
ATEmix (oral)	39779 mg/kg
ATEmix (dermal)	76980 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated packaging	Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

DOT Proper shipping name	Not regulated
IATA Proper shipping name	Not regulated
IMDG Proper shipping name	Not regulated

15. REGULATORY INFORMATION		
International Inventories		
TSCA	Complies	
DSL/NDSL	Complies	
EINECS/ELINCS	Not determined	
ENCS	Not determined	
IECSC	Complies	
KECL	Not determined	
PICCS	Not determined	
AICS	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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

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	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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)

CERCLA

Personal protection B

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US 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
SODIUM HYDROXIDE	Х	Х	Х
1310-73-2			

U.S. EPA Label Information EPA Pesticide Registration Number 6659-3

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Instability 0

Physical hazards 0

Flammability 1

Flammability 1

NFPA	Health hazards 1	
HMIS	Health hazards 1	

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date

11-Nov-2020

Disclaimer

Illinois Tool Works Inc. believes the information contained in this data sheet is accurate as of the date compiled. However, Illinois Tool Works Inc. makes no warranty, express or implied, as to the accuracy, reliability or completeness of the information. User is responsible for evaluating whether such information or this product is fit for a particular purpose and suitable for a particular use or application. The information in this data sheet may not be valid if this product is used in combination with other products or in processes for which it was not designed. Illinois Tool Works Inc. disclaims any liability for consequential or incidental damages of any kind, including lost profits, arising from the sale or use of this product. Ensure you have the most current version of this data sheet by contacting us or reviewing our web site.

End of Safety Data Sheet



Revision Date 18-Mar-2019

SAFETY DATA SHEET

Version 11

1. IDENTIFICATION

Product identifier Product Name

Spray Nine® 32 fl.oz

26832

Other means of identification Product Code

Recommended use of the chemical and restrictions on useRecommended UseLiquid cleanerUses advised againstNo information available

Details of the supplier of the safety data sheet Manufacturer Address ITW Permatex 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502 24-hour emergency phone number Chem-Tel: 800-255-3924 International Emergency: 00+1+ 813-248-0585 Contract Number: MIS0003453

E-mail address: mail@permatex.com

May Also Be Distributed by: ITW Permatex Canada 101-2360 Bristol Circle Oakville, ON Canada L6H 6M5 Telephone: (800) 924-6994

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Clear

Physical state Liquid

Odor Citrus

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) Not applicable

Other Information Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. FIRST AID MEASURES

Description of first aid measures

General advice	Get medical advice/attention if you feel unwell.	
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Skin contact	IF ON SKIN:. Wash skin with soap and water. If skin irritation persists, call a physician. Take off contaminated clothing and wash before reuse.	
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
Ingestion	IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Use personal protective equipment as required.	
Most important symptoms and effects, both acute and delayed		
Symptoms	See section 2 for more information.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
<u>Suitable extinguishing media</u> Carbon dioxide (CO2), Dry chemical, Foam		
Unsuitable extinguishing media None		
Specific hazards arising from the chemical None in particular.		
Explosion data Sensitivity to Mechanical Impact	None.	

Sensitivity to Mechanical ImpactNone.Sensitivity to Static DischargeNone.

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 and skin. Wash thoroughly after handling.			
Environmental precautions	Environmental precautions			
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.			
Methods for cleaning up	Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.			
	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.			
Conditions for safe storage, including any incompatibilities				
Storage Conditions	Keep from freezing.			
Incompatible materials	Strong oxidizing agents			
8. EXPOSURE CONTROLS/PERSONAL PROTECTION				
Control parameters				
Exposure Guidelines . NIOSH IDLH Immediately Dangerous to Life or Health				
Other Information	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).			
Appropriate engineering controls				
Engineering Controls	Eyewash stations			
Individual protection measures, su	ch as personal protective equipment			
Eye/face protection	Tight sealing safety goggles.			
Skin and body protection	Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.			
Respiratory protection	Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.			
General Hygiene Considerations	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.			
	9. PHYSICAL AND CHEMICAL PROPERTIES			

9.1. Information on basic physical and chemical properties

Physical state Appearance Odor **Odor threshold** Property

pН Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility(ies) Partition coefficient Autoignition temperature **Decomposition temperature** Kinematic viscositv Dynamic viscosity **Explosive properties Oxidizing properties**

Other Information Softening point Molecular weight VOC Content (%) Densitv **Bulk densitv** SADT (self-accelerating decomposition temperature)

Liquid Clear Citrus No information available Values 12.0 - 12.8 No information available 100 °C / 212 °F > 95 °C / > 203 °F < 1 No information available No information available No information available 18 mm Hg >1 1.02 g/ml Soluble in water No information available < 0.5%

No information available

No information available

No information available

Remarks • Method Low free alkalinity

Tag Closed Cup Butyl acetate = 1

Air = 1

10. STABILITY AND REACTIVITY

Reactivity No information available

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid Keep from freezing.

Incompatible materials

Strong oxidizing agents

Hazardous Decomposition Products Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye contact	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.
Skin contact	May cause skin irritation and/or dermatitis.
Ingestion	Ingestion may cause irritation to mucous membranes.

Information on toxicological effects

Symptoms	No information available.		
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Sensitization	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
The following values are calculated	based on chapter 3.1 of the GHS document .		
ATEmix (oral)	39421 mg/kg		
ATEmix (dermal)	76980 mg/kg		

12. ECOLOGICAL INFORMATION

Ecotoxicity

3.17 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability No information available.

<u>Bioaccumulation</u> No information available.

<u>Mobility</u>

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Disposal of wastes	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated packaging	Do not reuse container.
US EPA Waste Number	Not applicable

14. TRANSPORT INFORMATION

DOT

Proper shipping name:

Not regulated

IATA Proper shipping name:	Not regulated
IMDG Proper shipping name:	Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECL	Not determined
PICCS	Not determined
AICS	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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

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	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US 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
SODIUM HYDROXIDE	Х	X	Х
1310-73-2			

U.S. EPA Label Information

EPA Pesticide Registration Number 6659-3 EPA Statement This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards	1	Flar
HMIS	Health hazards	1	Flar

mmability 1 mmability 1 Instability 0 Physical hazards 0

Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date 18-Mar-2019

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





Safety Data Sheet California CARB Compliant

	Manufacturer: WD-40 Company
Product Name: WD-40 Multi-Use Product Aerosol	Address: 9715 Businesspark Avenue San Diego, California, USA
Product Use: Lubricant, Penetrant, Drives Out	92131
Moisture, Removes and Protects Surfaces From	Telephone:
Corrosion	Emergency: 1-888-324-7596
	Information: 1-888-324-7596
Restrictions on Use: None identified	Chemical Spills: 1-800-424-9300 (Chemtrec)
	1-703-527-3887 (International Calls)
SDS Date Of Preparation: March 5, 2019	. , , ,

2 – Hazards Identification

Hazcom 2012/GHS Classification: Flammable Aerosol Category 1 Gas Under Pressure: Compressed Gas Aspiration Toxicity Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)

Note: 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.

Label Elements:



DANGER!

Extremely Flammable Aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

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.

Avoid breathing vapors or mists.

Use only outdoors or in a well-ventilated area.

Response

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

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 local and national regulations.

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	US Hazcom 2012/ GHS Classification
LVP Aliphatic Hydrocarbon	64742-47-8	45-50%	Aspiration Toxicity Category 1
Petroleum Base Oil	64742-56-9 64742-65-0 64742-53-6 64742-54-7 64742-71-8	<35%	Not Hazardous
Aliphatic Hydrocarbon	64742-47-8	<25%	Flammable Liquid Category 3 Aspiration Toxicity Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Carbon Dioxide	124-38-9	2-3%	Simple Asphyxiant Gas Under Pressure, Compressed Gas

Note: The specific chemical identity and exact percentages are a trade secret.

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.

Signs and Symptoms of Exposure: Harmful or fatal if swallowed. Aspiration of liquid into the lungs during swallowing or vomiting may cause lung damage. May cause eye and respiratory irritation. Inhalation of mists or vapors may cause drowsiness, dizziness and other nervous system effects. Skin contact may cause drying of the skin.

Indication of Immediate Medical Attention/Special Treatment Needed: Immediate medical attention is needed for ingestion.

5 – Fire Fighting Measures

Suitable (and unsuitable) 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. Specific Hazards Arising from the Chemical: Extremely flammable aerosol. 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. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons. Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

Methods and Materials for Containment/Cleanup: Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. 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 aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

Conditions for Safe Storage: Store in a cool, well-ventilated area, away from incompatible materials. Do not store above 120°F or in direct sunlight, U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

0 - Exposure controls/reison	
Chemical	Occupational Exposure Limits
LVP Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m3 TWA (Inhalable) ACGIH TLV (as Mineral oil)
	5 mg/m3 TWA OSHA PEL (as Oil mist, mineral)
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Carbon Dioxide	5000 ppm TWA, 30,000 ppm STEL ACGIH TLV
	5000 ppm TWA OSHA PEL

8 – Exposure Controls/Personal Protection

The Following Controls are Recommended for Normal Consumer Use of this Product Appropriate Engineering Controls: Use in a well-ventilated area.

Personal Protection:

Eye Protection: Avoid eye contact. Always spray away from your face.

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

Appropriate 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 Chemic	al Properties		
Appearance:	Light amber liquid	Flammable Limits:	LEL: 0.6% UEL: 8%
		(Solvent Portion)	
Odor:	Mild petroleum odor	Vapor Pressure:	95-115 PSI @ 70°F
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 – 0.82 @ 60°F
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 -	Partition Coefficient; n-	Not established
	187°C)	octanol/water:	
Flash Point:	138°F (59°C) Tag Closed	Autoignition	Not established
	Cup (liquid)	Temperature:	

and an I Al and a Down and

Evaporation Rate:	Not established	Decomposition	Not established
		Temperature:	
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	2.79-2.96 cSt @ 100°F
VOC:	24.1%	Pour Point:	-63°C (-81.4°F) ASTM
	MIR=0.43gO3/gVOC		D-97

10 – Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: May react with strong oxidizers generating heat.

Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

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

Persistence and Degradability: Components are readily biodegradable.

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients. **Mobility in Soil:** No data available

Other Ádverse Effects: None known

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. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 Ltd. Qty (Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark) IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

15 – Regulatory Information

U.S. Federal Regulations:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SĂRA TITLE III:

Hazard Category For Section 311/312: Acute Health, Fire Hazard, Sudden Release of Pressure 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.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not require a California Proposition 65 warning.

VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification

16 – Other Information

HMIS Hazard Rating: Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)

Revision Date: March 5, 2019

Supersedes: July 19, 2018

Revision Summary: Section 9 update VOC data

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

Reviewed by: I. Kowalski

Regulatory Affairs Dept.

1012200/No.0084704



WELD-ON® 717[™] Low VOC Cements for PVC Plastic Pipe

Date Revised: JUN 2018 Supersedes: NOV 2017

		ID ENTER A VET	<u></u>							
				Dine						
PRODUCT NAME:	WELD-ON® 717™ Low VC			Ріре						
PRODUCT USE:	Low VOC Solvent Cement f	•		0711255	100.0	·				
SUPPLIER:			WANUFA	CTURER:	IPS Corporat 17109 South	tion Main Street, 0	ardena CA o	0248-3127		
						9, Gardena, CA				
					Tel. 1-310-89				"	
-	tion: CHEMTEL Tel. 800.255		0585 (Inte	ernational)	Medical: CH	EMTEL Tel. 80	0.255-3924,	+1 813-248-0	0585 (International)
	RDS IDENTIFICATIO	Ν								
GHS CLASSIFICATION:	alth		Environ	mental			Ph	ysical		
Acute Toxicity:	Category 4	Acute Toxicity:	2	None Known		Flammable Li		Jorodi	Category 2	
Skin Irritation:	Category 3	Chronic Toxicity:		None Known						
Skin Sensitization: Eye:	NO Category 2									
GHS LABEL:		Sigr	nal Word:			WHMIS CLASS		CLASS B, D	IVISION 2	
•		-	anger					CLASS D, D		
	\mathbf{v} \mathbf{v} \mathbf{v}		U							
	Hazard Statements						ry 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: Ren	nove victim to fre	sh air and keep	at rest in a pos	ition comfortable for b	preathing
H336: May cause drowsiness o						ntilated place. Ke				
H351: Suspected of causing ca EUH019: May form explosive p				Poul: Dispose	or contents/con	tainer in accorda	ice with local re	guiauON		
	POSITION/INFORMA	FION ON INGR		тs						
			ECS #	RE	ACH	C		N		
Tetrahydrofuran (THF)		109-99-9 20	3-726-8	Pre-registration 05-21162977			% by Weight 25 - 70			
Methyl Ethyl Ketone (MEK)		78-93-3 20	1-159-0	05-21162977	28-24-0000		5 - 36			
Cyclohexanone	"»			05-21162977			10 - 25			
	s adhesive product are listed subject to the reporting requi									
	al is found on Proposition 65									
SECTION 4 - FIRS										
Contact with eyes: Skin contact:	Flush eyes immediately with Remove contaminated cleft						dovelopa a	ok modical -	dvico	
Inhalation:	Remove contaminated cloth Remove to fresh air. If brea									
Ingestion:	Rinse mouth with water. G	ve 1 or 2 glasses o	f water or							
Likely Routes of Exposur Acute symptoms and effe		e and Skin Contact	t							
Acute symptoms and effe	Severe overexposure may i	esult in nausea, diz	zziness, he	eadache. Car	n cause drows	iness, irritatior	of eyes and	nasal passad	jes.	
Eye Contact:	Vapors slightly uncomfortat	ole. Overexposure	may result	t in severe eye	e injury with co	orneal or conju	nctival inflam	nation on co		1.
Skin Contact:	Liquid contact may remove		•		Dermatitis ma	y occur with p	olonged cont	act.		
Ingestion: Chronic (long-term) effec	May cause nausea, vomitin ts: Category 2 C		mai siuggi	5111055.						
SECTION 5 - FIRE	FIGHTING MEASURE	-								
Suitable Extinguishing	Media: Dry chemical	powder, carbon dic	oxide gas,	foam, Halon,	water fog.		HMIS	NFPA	0-Minimal	
Unsuitable Extinguishir Exposure Hazards:		or stream. d dermal contact				Health Flammability	2 3	2 3	1-Slight 2-Moderate	
Combustion Products:		bon, hydrogen chlo	ride and s	moke		Reactivity	0	0	3-Serious	
Protoction for Fireficient	Colf annisis	d broathing anno	tue or full	faco positive		PPE	В		4-Severe	
Protection for Firefighte	-	d breathing apparat	ius or full-	ace positive positive	bressure airlin	e masks.				
Personal precautions:	DENTAL RELEASE N Keep away fr	IEASURES om heat, sparks and	d open fla	me.						
	, ,	ent ventilation, use	•							
					st ventilation e	equipment or w	ear suitable r	espiratory pr	otective equipmen	t.
Environmental Processi		act with skin or eyes	s (see sect	tion 8).					otective equipmen	t.
Environmental Precaution Methods for Cleaning up	ons: Prevent prod	act with skin or eyes uct or liquids contar a sand or other inert	s (see sect ninated wi	tion 8). ith product fro	m entering se	wers, drains, s	oil or open wa		otective equipmen	t.
	ons:Prevent prodo:Clean up with	uct or liquids contar	s (see sect ninated wi t absorben	tion 8). ith product fro nt material. Tr	m entering se	wers, drains, s	oil or open wa		otective equipmen	t.
Methods for Cleaning up Materials not to be used SECTION 7 - HANE	ons: Prevent prod Clean up with for clean up: DLING AND STORAG	uct or liquids contar sand or other inert Aluminum or plasti E	s (see sect ninated wi t absorben ic containe	tion 8). ith product fro nt material. Tr	m entering se	wers, drains, s	oil or open wa		otective equipmen	t.
Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breathi	ns: Prevent prod Clean up with for clean up: DLING AND STORAG ng of vapor, avoid contact wi	uct or liquids contar a sand or other inert Aluminum or plasti E th eyes, skin and cl	s (see sect minated wi t absorben ic containe othing.	tion 8). ith product fro at material. Tr ers	m entering se ansfer to a clo	wers, drains, s osable steel ve	oil or open wa ssel.	iter course.	otective equipmen	t.
Methods for Cleaning up Materials not to be used SECTION 7 - HANU Handling: Avoid breathi Keep away fr Do not eat, di	Prevent prod Clean up with for clean up: DLING AND STORAG ng of vapor, avoid contact wi om ignition sources, use only rink or smoke while handling.	uct or liquids contar a sand or other inert Aluminum or plasti E th eyes, skin and cl electrically ground	s (see sect minated wi t absorben ic containe othing. ed handlir	tion 8). ith product fro nt material. Tr ers	m entering se ansfer to a clo	wers, drains, s osable steel ve	oil or open wa ssel.	iter course.	otective equipmen	t.
Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breathin Keep away fr Do not eat, di Storage: Store in venti	Desc. Prevent prod Clean up with for clean up: DLING AND STORAG on gof vapor, avoid contact wi om ignition sources, use only ink or smoke while handling, lated room or shade below 4	uct or liquids contar a sand or other inert Aluminum or plasti E th eyes, skin and cl e electrically ground 4°C (110°F) and aw	s (see sect ninated wi t absorben ic containe othing. ed handlir way from di	tion 8). ith product fro nt material. Tr ers ng equipment irect sunlight.	m entering se ansfer to a clo and ensure ad	wers, drains, s osable steel ve	oil or open wassel.	aust hoods.		t.
Methods for Cleaning up Materials not to be used SECTION 7 - HAND Handling: Avoid breathi Keep away fr Do not eat, d Storage: Store in venti Keep away fr	Prevent prod Clean up with for clean up: DLING AND STORAG ng of vapor, avoid contact wi om ignition sources, use only rink or smoke while handling.	uct or liquids contar a sand or other inert Aluminum or plasti E th eyes, skin and cl electrically ground 4°C (110°F) and aw mpatible materials:	s (see sect ninated wi t absorben ic containe othing. ed handlir way from di caustics, a	tion 8). ith product fro it material. Tr ers ng equipment irect sunlight. ammonia, inor	m entering se ansfer to a clo and ensure ac	wers, drains, s osable steel ve dequate ventila	oil or open wassel.	aust hoods.		t.
Methods for Cleaning up Materials not to be used SECTION 7 - HAND Handling: Avoid breathi Keep away fr Do not eat, di Storage: Store in venti Keep away fr Follow all pre	Description Structure DELING AND STORAG or gof vapor, avoid contact wi om ignition sources, use only ink or smoke while handling, lated room or shade below 4 om ignition sources and inco	uct or liquids contar s and or other inert Aluminum or plastit E th eyes, skin and cl r electrically ground 4°C (110°F) and aw mpatible materials: ntainer label, produ	s (see sect minated wi t absorben ic containe othing. ed handlir vay from di caustics, a ct bulletin	tion 8). th product fro th material. Tr ers ng equipment irect sunlight. ammonia, inou s and solvent	m entering se ansfer to a clo and ensure a ganic acids, c cementing lite	wers, drains, s ssable steel ve dequate ventila shlorinated con rature.	oil or open wassel.	aust hoods.		t.
Methods for Cleaning up Materials not to be used SECTION 7 - HANI Handling: Avoid breathin Keep away fr Do not eat, d Storage: Store in ventin Keep away fr Follow all pre	Prevent prod 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, lated room or shade below 4 m ignition sources and inco cautionary information on co CAUTIONS TO CONTI	uct or liquids contar s and or other inert Aluminum or plasti E th eyes, skin and cl electrically ground 4°C (110°F) and aw mpatible materials: ntainer label, produ ROL EXPOSUE	s (see sect ninated wi absorben ic containe othing. ed handlir vay from di caustics, a ct bulletine RE / PEI	tion 8). ith product fro it material. Tr ers ng equipment irect sunlight. ammonia, inou s and solvent RSONAL F	m entering se ansfer to a clo and ensure ac ganic acids, c cementing lite PROTECTI	wers, drains, s posable steel ve dequate ventila chlorinated con erature. ON OSHA	oil or open wassel. ation/fume exh apounds, stron	tter course. naust hoods.	and isocyanates.	t.
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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							
Appearance:			r, heavy syrupy li	quid				
Odor:		Ketone					Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:		Not Applicab					Delline Denes	
Melting/Freezing Poi Boiling Point:	int:		63.3°F) Based or) Based on first b			INF	Boiling Range: Evaporation Rate:	66°C (151°F) to 156°C (313°F) > 1.0 (BUAC = 1)
Flash Point:			TCC based on T		Shent. Thi		Flammability:	Category 2
Specific Gravity:		0.963 @23°					Flammability Limits:	LEL: 1.1% based on Cyclohexanone
Solubility:			on soluble in wat	er. Resin po	ortion separate	es out.		UEL: 11.8% based on THF
Partition Coefficient	n-octanol/wa		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	perature:	Not Applicab					Other Data: Viscosity:	Heavy bodied
VOC Content:				r SCAQMD I	Rule 1168, Te	st Method 31	6A,VOC content is: < 510 g/	1
SECTION 10 - STA	BILITY AN	ID REACTI						
Stability:			Stable					
Hazardous decompo	•	cts:						hydrogen chloride and smoke.
Conditions to avoid:			Keep away from				nition sources.	
Incompatible Materia			Oxidizers, stror	ng acids and	bases, amine	s, ammonia		
SECTION 11 - TOX	GCOLOGI		MATION					
Toxicity:		LD50				LC50		Target Organs
Tetrahydrofuran (THF)		Oral: 2842 m					3 hrs. 21,000 mg/m ³ (rat)	STOT SE3
Methyl Ethyl Ketone (MEł	<)		ig/kg (rat), Derma				8 hrs. 23,500 mg/m ³ (rat)	STOT SE3
Cyclohexanone		Oral: 1535 m	g/kg (rat), Derma	al: 948 mg/kg	g (rabbit)	Inhalation	4 hrs. 8,000 PPM (rat)	
Reproductive Effects		ogenicity	Mutage			otoxicity	Sensitization to Product	
Not Established	Not Es	stablished	Not Estal	blished	Not Es	tablished	Not Established	Not Established
SECTION 12 - ECO	DLOGICAL	INFORMA	TION					
Ecotoxicity:	None Know							
Mobility:	In normal us	e, emission of	volatile organic o	compounds (VOC's) to the	air takes pla	ce, typically at a rate of <pre>< 51</pre>	0 g/l.
Degradability:		biodegradable						
Bioaccumulation:	Minimal to n	one.						
SECTION 13 - WAS	STE DISPO	DSAL CON	SIDERATION	IS				
Follow local and national re	egulations. C	onsult disposal	expert.					
SECTION 14 - TRA	NSPORT I	NFORMAT	ION					
Proper Shipping Name:	:	Adhesives						
Hazard Class:		3					ION for Ground Shipping	
Secondary Risk:		None					er packaging, 30 kg gross w	
Identification Number:		UN 1133	C	onsumer Co	ommodity: De	epending on	packaging, these quantities i	may qualify under DOT as "ORM-D" .
Packing Group: Label Required:		PG II Close 2 Elem	mable Liquid		<u> </u>	т	DG INFORMATION	
Marine Pollutant:		NO	inable Liquiu		TDG CLASS		FLAMMABL	
		NO			SHIPPING N		ADHESIVES	
						R/PACKING		
SECTION 15 - REG	JULATOR				<u> </u>			
Precautionary Label				arc. Cat. 2	Ingredient Li	stings: USA	TSCA, Europe EINECS, Ca	nada DSL, Australia
Symbols:		F, Xi			•	AICS, K	orea ECL/TCCL, Japan MIT	I (ENCS)
Risk Phrases:	R11: Highly f							
		by inhalation.					ted exposure may cause skin o	
			respiratory syster	n.			may cause drowsiness and d	
Safety Phrases:			ventilated place.					plenty of water and seek medical advice.
		way from source ontact with eyes	s of ignition - No s	smoking.			easures against static discharg dical advise immediately and s	
			•		340. II SWAIIO	weu, seek me	ucal advise inimediately and s	
SECTION 16 - OTH		RMATION						
Specification Inform			IDS Sofoty Line	alth & Enviro	nmontal Affair	· C	All ingradiante are complia	ant with the requirements of the European
Department issuing E-mail address:	udta sheet:		IPS, Safety Hea <ehsinfo@ipso< th=""><th></th><th>minerital Attall</th><th>5</th><th></th><th>ant with the requirements of the European ction of Hazardous Substances).</th></ehsinfo@ipso<>		minerital Attall	5		ant with the requirements of the European ction of Hazardous Substances).
					برياب ومعقوله		,	chon or mazardous oubstances).
Training necessary: Reissue date / reaso		-	Yes, training in 6/21/2018 / Upo				product literature.	
Intended Use of Pro		-	Solvent Cemen			a		
intended use of Pro	uuot.		Solvenii Cemen		asuc ripe			

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.

WELD×	ON ®	Gŀ	IS SAFE		ASHE	- •		Data Data 1	UIN 2040	
	WE	LD-ON® 71	l7™ Low V	/OC Ceme	nts for PV	C Plastic P	ipe	Date Revised: Supersedes:		
	JCT AND COMPANY WELD-ON® 717™ Low VC			Pine						
	Low VOC Solvent Cement			, i ipe						
SUPPLIER:				CTURER:	IPS Corporat	ion				
					17109 South	Main Street, G), Gardena, CA				
EMERGENCY: Transportati	ion: CHEMTEL Tel. 800.255	j-3924, +1 813-2	248-0585 (I nte	ernational)			0.255-3924,	+1 813-248-0)585 (Internationa	I)
SECTION 2 - HAZA	RDS IDENTIFICATIO	N								
SHS CLASSIFICATION:										
Hea Acute Toxicity:	alth Category 4	Acute Toxicity:	Environ	mental None Known		Flammable Li		ysical	Category 2	
Skin Irritation:	Category 3	Chronic Toxici		None Known			quiu		outogory 2	
	NO									
Eye:	Category 2	L								
GHS LABEL:		:	Signal Word: Danger			WHMIS CLASS	IFICATION:	CLASS B, D CLASS D, D		
	Hazard Statements					Precautiona	ry Statement	<u>s</u>		
1225: Highly flammable liquid ar					, ,	arks/open flames		No smoking		
l319: Causes serious eye irritati l332: Harmful if inhaled	ion					ne/gas/mist/vapo protective clothing		lface protoction	,	
1335: May cause respiratory irrit	tation								ition comfortable for	breathing
1336: May cause drowsiness or	dizziness			P403+P233: St	tore in a well ver	tilated place. Ke	ep container tig	htly closed		-
I351: Suspected of causing can EUH019: May form explosive per				P501: Dispose	of contents/cont	tainer in accorda	nce with local re	egulation		
· · ·	POSITION/INFORMA			TS						
			EINECS #	RE/	ACH	C	ONCENTRATIC	DN		
etrahydrofuran (THF)		109-99-9	203-726-8	Pre-registration 05-21162977			% by Weight 25 - 70			
Nethyl Ethyl Ketone (MEK)		78-93-3	201-159-0	05-21162977			5 - 36			
Cyclohexanone		108-94-1		05-21162977			10 - 25			
	s adhesive product are listed subject to the reporting requ									
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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 CHEI	MICAL PROPERTIE	S			
Appearance:		r clear, heavy syrupy liqui	b			
Odor:	Ketone				Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:		plicable				
Melting/Freezing Pol		°C (-163.3°F) Based on fir			Boiling Range:	66°C (151°F) to 156°C (313°F)
Boiling Point:		151°F) Based on first boili	ng component:	THF	Evaporation Rate:	> 1.0 (BUAC = 1)
Flash Point:		(-4°F) TCC based on THF			Flammability:	Category 2
Specific Gravity:		@23°C (73°F)	Desig parties		Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 11.8% based on THF
Solubility: Partition Coefficient		t portion soluble in water. Not Available	Resin portion	separates out.	Vapor Pressure:	129 mm Hg @ 20°C (68°F)based on THF
Auto-ignition Tempe		(610°F) based on THF			Vapor Density:	>2 (Air = 1)
Decomposition Tempe		plicable			Other Data: Viscosity:	Heavy bodied
VOC Content:			CAOMD Rule 1	168 Test Method 316	6A,VOC content is: < 510 g/	
SECTION 10 - STA					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
		Stable				
Stability:	aition productor		o Whon force	d to hurn, this product	aiwaa off avidaa of aarban	budragan ablarida and amaka
Hazardous decompo Conditions to avoid:	•			en flame and other ign		hydrogen chloride and smoke.
				•	nuon sources.	
Incompatible Materia		· •		s, amines, ammonia		
SECTION 11 - TO						
Toxicity:	LC			LC50		Target Organs
Tetrahydrofuran (THF)		842 mg/kg (rat)			hrs. 21,000 mg/m ³ (rat)	STOT SE3
Methyl Ethyl Ketone (MEI		737 mg/kg (rat), Dermal: 6			hrs. 23,500 mg/m ³ (rat)	STOT SE3
Cyclohexanone	Oral: 1	535 mg/kg (rat), Dermal: 9	48 mg/kg (rab	bit) Inhalation 4	hrs. 8,000 PPM (rat)	
Reproductive Effects	Teratogenicity	/ Mutagenic	itv	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Establishe	d Not Establis	hed	Not Established	Not Established	Not Established
SECTION 12 - ECO	DLOGICAL INFO	RMATION	·			
Ecotoxicity:	None Known					
Mobility:		ion of volatile organic corr	nounds (VOC	s) to the air takes plac	e, typically at a rate of < 51) a/l
Degradability:	Not readily biodegrad	-			o, typically at a rate or <u>-</u> o re	- <u>9</u>
Bioaccumulation:	Minimal to none.					
SECTION 13 - WAS						
Follow local and national r	-					
SECTION 14 - TRA Proper Shipping Name:						
Hazard Class:	. Aunesi 3	ves		EXCEPT	ION for Ground Shipping	
Secondary Risk:	None	DOT	Limited Quar		er packaging, 30 kg gross w	eight per package
Identification Number:	UN 11					nay qualify under DOT as "ORM-D" .
Packing Group:	PG II			sang. Depending on p	dokuğing, mede quantitier	
Label Required:		3 Flammable Liquid		тр	G INFORMATION	
Marine Pollutant:	NO		TDC	G CLASS:	FLAMMABLI	ELIQUID 3
			SHI	PPING NAME:	ADHESIVES	
			UN	NUMBER/PACKING G	ROUP: UN 1133, PC	Э II
SECTION 15 - REC		RMATION				
		Flammable, Irritant, Carc.	Cat. 2 Ingr	edient Listings: USA	TSCA, Europe EINECS, Car	nada DSL, Australia
Symbols:	F, Xi	,, 50.0.			prea ECL/TCCL, Japan MIT	
Risk Phrases:	R11: Highly flammable					
	R20: Harmful by inhala			R66: Repeate	ed exposure may cause skin c	Iryness or cracking
	R36/37: Irritating to ey	es and respiratory system.			may cause drowsiness and di	
Safety Phrases:	S9: Keep container in	a well-ventilated place.	S26	In case of contact with	eves, rinse immediatelv with r	enty of water and seek medical advice.
		sources of ignition - No smo			asures against static discharg	
	S25: Avoid contact wit				lical advise immediately and s	
SECTION 16 - OTH		N				
Specification Inform						
	ation:					
Department issuing		IPS, Safety Health	& Environmen	tal Affairs	All ingredients are complia	ant with the requirements of the European
Department issuing E-mail address:		IPS, Safety Health <ehsinfo@ipscor< th=""><th></th><th>tal Affairs</th><th></th><th>ant with the requirements of the European ction of Hazardous Substances).</th></ehsinfo@ipscor<>		tal Affairs		ant with the requirements of the European ction of Hazardous Substances).
E-mail address:	data sheet:	<ehsinfo@ipscorp< th=""><th>.com></th><th></th><th>Directive on RoHS (Restri</th><th></th></ehsinfo@ipscorp<>	.com>		Directive on RoHS (Restri	
	data sheet:	<ehsinfo@ipscorp< th=""><th>o.com> octices and pro</th><th>cedures contained in p</th><th>Directive on RoHS (Restri</th><th></th></ehsinfo@ipscorp<>	o.com> octices and pro	cedures contained in p	Directive on RoHS (Restri	

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.

WELD×		GH DN® P-70™		ETY DA	-		stic Pine	Date Revised: Supersedes:		
				i inner ior			suc Filte	Supersedes:	DEC 2018	
	JCT AND COMPANY WELD-ON® P-70™ Low V			C Plantic Di-	0					
PRODUCT NAME: PRODUCT USE:	Low VOC Primer for PVC a			- o masuc Pip						
SUPPLIER:				ACTURER:	P.O. Box 37	n Main Street, C 9, Gardena, CA				
MERGENCY Transportati	ion: CHEMTEL Tel. 800.255	-3924 +1 813-2	248-0585 (Inte	rnational)	Tel. 1-310-8		00 255-3924	+1 813-248-0	585 (Internationa	al)
	RDS IDENTIFICATIO								(,
GHS CLASSIFICATION:		1				1				
He Acute Oral Toxicity: Skin Irritation: Skin Sensitization: Carcinogenity Eye:	<u>aalth</u> Category 4 Category 3 NO Category 2 Category 2	Acute Toxicity Chronic Toxic	/:	nmental None Known None Known		Flammable Li		nysical	Category 2	
GHS LABEL:	🗞 🗘 🍕		Signal Word: Danger	:		WHMIS CLASS	SIFICATION:	CLASS B, DI CLASS D, D		
H225: Highly flammable liquid a H319: Causes serious eye irrital H332: Harmful if inhaled H335: May cause respiratory irri H336: May cause drowsiness of H351: Suspected of causing can EUH019: May form explosive pe SECTION 3 - COMB	tation r dizziness ncer			P261: Avoid br P280: Wear pr P304+P340: IF P403+P233: S P501: Dispose	eathing dust/fur otective gloves/ INHALED: Ren tore in a well ve	parks/open flame me/gas/mist/vapo protective clothin	ors/spray ng/eye protection esh air and keep eep container ti	- No smoking n/face protection o at rest in a pos ghtly closed	n sition comfortable fo	or breathi
SECTION 5 - COMP		CAS	EINECS		ACH	С	ONCENTRATIO	ON		
Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK) Cyclohexanone Acetone		109-99-9 78-93-3 108-94-1 67-64-1	203-726-8 201-159-0 203-631-1 200-662-2	01-2119444 01-2119457 01-2119453	on Number 314-46-0000 290-43-0000 616-35-0000 330-49-0000		% by Weight 45 - 59 19 - 29 5 - 15 5 - 20	-		
* Indicates this chemical is	s adhesive product are listed subject to the reporting requi al is found on Proposition 65 AID MEASURES	irements of Sec	tion 313 of the	e Emergency F	Planning and	Community Rig	ght-to-Know A	ct of 1986 (40		
Contact with eyes:	Flush eyes immediately with	h plenty of wate	r for 15 minut	es and seek m	edical advice	immediately.				
Ingestion: Likely Routes of Exposure Acute symptoms and effect Inhalation: Eye Contact: Skin Contact: Ingestion: Chronic (long-term) effect	cts: Severe overexposure may Vapors slightly uncomfortat Liquid contact may remove May cause nausea, vomitin	ive 1 or 2 glass ye and Skin Cor result in nausea ole. Overexpos natural skin oik g, diarrhea and	es of water or ntact a, dizziness, he ure may result s resulting in s	milk to dilute. eadache. Can t in severe eye skin irritation.	Do not induc	ce vomiting. Se siness, irritation prneal or conju	eek medical a n of eyes and nctival inflam	idvice immedia nasal passage mation on con	ately. es.	id.
	IGHTING MEASURE									
Suitable Extinguishing M Unsuitable Extinguishing Exposure Hazards: Combustion Products:	g Media: Water spray Inhalation and	powder, carbor or stream. d dermal contac rbon and smoke	ct	foam, Halon,	water fog.	Health Flammability Reactivity PPE	HMIS 2 3 0 B	NFPA 2 3 0	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe	
Protection for Firefighte		d breathing app	paratus or full-	face positive p	oressure airlin					
Personal precautions: Environmental Precautio Methods for Cleaning up Materials not to be used	Provide suffic Prevent conta ns: Prevent prod Clean up with	om heat, spark cient ventilation, act with skin or uct or liquids co n sand or other Aluminum or	, use explosio eyes (see sec ontaminated w inert absorber	n-proof exhaus ction 8). vith product fro nt material. Tr	m entering se	wers, drains, s	soil or open w		otective equipmen	nt.
	ng of vapor, avoid contact wi		d clothing.							
Storage: Do not eat, dr Store in ventil Keep away fro	om ignition sources, use only ink or smoke while handling. ated room or shade below 4 om ignition sources and inco participation sources and inco	4°C (110°F) and mpatible materi	d away from d als: caustics,	lirect sunlight. ammonia, inor	ganic acids, o	chlorinated con			and isocyanates.	
	cautionary information on con AUTIONS TO CONTR									
	Component	ACGIH	ACGIH	OSHA	OSHA	OSHA	CAL/OSHA	CAL/OSHA	CAL/OSHA	
	Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK) Cyclohexanone	8 hour TLV 50 ppm 200 ppm 20 ppm	15 min STEL 100 ppm 300 ppm 50 ppm	8 hour PEL 200 ppm 200 ppm 50 ppm	15 min STEL N/E N/E N/E	PEL-Ceiling N/E N/E N/E	8 hour PEL 200 ppm 200 ppm 25 ppm	Ceiling N/E N/E N/E	15 min STEL 250 ppm 300 ppm N/E	
Engineering Controls: Monitoring: Personal Protective Equi		borne concentra				N/E	500 ppm	3000 ppm	750 ppm	
Eye Protection: Skin Protection:	Avoid contact with eyes, we etc. as may be appropriate Prevent contact with the sk Use of solvent-resistant glo	for the exposur in as much as p	e. oossible. Butyl	I rubber gloves	should be us	sed for frequent	t immersion.			
Respiratory Protection:	practices and procedures a Prevent inhalation of the so	re used for mal	king structural a well-ventilat	bonds. ed room. Ope	n doors and/	or windows to e	ensure airflow	and air chang	ges. Use local	

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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 Appearance:		purple, thin liquid			
Odor:	Etherea	i i i		Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:	Not Apr				
Melting/Freezing Poin		C (-163.3°F) Based on first me		Boiling Range:	56°C (133°F) to 156°C (313°F)
Boiling Point: Flash Point:		33°F) Based on first boiling co 4°F) TCC based on Acetone	mponent: Acetone	Evaporation Rate: Flammability:	> 1.0 (BUAC = 1) Category 2
Specific Gravity:		23°C (73°F)		Flammability Limits	
Solubility:		portion soluble in water.			UEL: 12.8% based on Acetone
Partition Coefficient r		Not Available		Vapor Pressure:	190 mm Hg @ 20°C (68°F) Acet
Auto-ignition Temper		610°F) based on THF		Vapor Density:	>2.0 (Air = 1)
Decomposition Temp VOC Content:		pplied as directed, per SCAQ	ID Rule 1168 Test Meth	Other Data: Viscos	
SECTION 10 - STAR					555 gn.
Stability:		Stable			
Hazardous decompos	sition products:		hen forced to burn this	product gives off oxides of ca	arbon and smoke
Conditions to avoid:	sition products.		parks, open flame and c		
Incompatible Material	ls:		and bases, amines, amr		
SECTION 11 - TOXI	COLOGICAL INF	ORMATION			
Toxicity:		LD50		LC50	Target Organs
Tetrahydrofuran (THF)	Oral: 28	42 mg/kg (rat)	Inha	lation 3 hrs. 21,000 mg/m ³ (r	
Methyl Ethyl Ketone (MEK		37 mg/kg (rat), Dermal: 6480		lation 8 hrs. 23,500 mg/m ³ (r	
Cyclohexanone		35 mg/kg (rat), Dermal: 948 m	3 3 ()	ation 4 hrs. 8,000 PPM (rat)	
Acetone		00 mg/kg (rat)		lation 50,100 mg/m ³ (rat)	STOT SE3
Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxic	ity Sensitization to Pr	oduct Synergistic Products
Not Established	Not Established		Not Establish		
SECTION 12 - ECO					
Ecotoxicity: Mobility in Soil:		vironment, this product can me	ove rapidly through the s	pil.	
Mobility in Soil: Degradability: Bioaccumulation:	If released into the en Not available Minimal to none.		ove rapidly through the s	bil.	
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS	If released into the en Not available Minimal to none.	ONSIDERATIONS	ove rapidly through the s	Dil.	
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national reg	If released into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp	ONSIDERATIONS	ove rapidly through the s	Dil.	
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national res SECTION 14 - TRAN	If released into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp ISPORT INFORM	ONSIDERATIONS osal expert. ATION		pil.	
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national rea	If released into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp ISPORT INFORM	ONSIDERATIONS			
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national re SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk:	If released into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp ISPORT INFORM Flamma 3 None	DNSIDERATIONS sal expert. ATION ble Liquid, n.o.s. (Acetone, Te	trahydrofuran)	EXCEPTION for Groun	
Mobility in Soil: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and national re SECTION 14 - TRAN Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number:	If released into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp ISPORT INFORM Flamma 3 None UN 199	DNSIDERATIONS sal expert. ATION bible Liquid, n.o.s. (Acetone, Te 3 DOT Lim	trahydrofuran) ited Quantity: Up to 1L	EXCEPTION for Groun	ross weight 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 into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp ISPORT INFORM 3 None UN 199 PG II	DNSIDERATIONS Disal expert. ATION ble Liquid, n.o.s. (Acetone, Te 3 DOT Lim Consume	trahydrofuran) ited Quantity: Up to 1L	EXCEPTION for Groun	
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 into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp ISPORT INFORM Flamma 3 None UN 199 PG II Class 3	DNSIDERATIONS sal expert. ATION bible Liquid, n.o.s. (Acetone, Te 3 DOT Lim	trahydrofuran) ited Quantity: Up to 1L	EXCEPTION for Groun	ross weight 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 into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp ISPORT INFORM Shore UN 199 PG II Class 3 NO TDG CI SHIPPI	DNSIDERATIONS sal expert. ATION ble Liquid, n.o.s. (Acetone, Te 3 DOT Lim Consume Flammable Liquid ASS: VG NAME:	trahydrofuran) ited Quantity: Up to 1L ar Commodity: Dependi TDG INF FLAMMABLE LIQU Flammable Liquid	EXCEPTION for Groun per inner packaging, 30 kg gi ng on packaging, these quan ORMATION	ross weight per package. titites may qualify under DOT as "ORM-I
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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: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REG Precautionary Label Symbols:	If released into the en Not available Minimal to none. TE DISPOSAL C gulations. Consult disp ISPORT INFORM Flamma 3 None UN 199 PG II Class 3 NO TDG CI SHIPPI UN NUI ULATORY INFOF Information: Highly fi F, Xi R11: Highly flammable. R20: Harmful by inhalat	DNSIDERATIONS sal expert. ATION ble Liquid, n.o.s. (Acetone, Te 3 Flammable Liquid ASS: VG NAME: MBER/PACKING GROUP: MATION lammable, Irritant, (CarcTHF	trahydrofuran) ited Quantity: Up to 1L or Commodity: Dependi TDG INF FLAMMABLE LIQU Flammable Liquid, UN 1993, PG II) Cat. 2 Ingre A R66:	EXCEPTION for Groun per inner packaging, 30 kg g ng on packaging, these quan ORMATION IID 3 n.o.s. (Acetone, Tetrahydrofi dient Listings: USA TSCA, E ICS, Korea ECL/TCCL, Japa	ross weight per package. titlies may qualify under DOT as "ORM-I uran) Europe EINECS, Canada DSL, Australia an MITI (ENCS) skin dryness or cracking
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