All

ΑII

Boeing

# Safety Data Sheet Index

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# 1. Identification

1.1. Product identifier

Product Identity 587
Alternate Names 587

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

Intended use See Technical Data Sheet.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name John Tillman Company

1300 W. Artesia Blvd.

Compton, CA 90220. USA

**Emergency** 

24 hour Emergency Telephone No.310-764-0110Customer 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]:



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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.

# 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 symptoms 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.

<sup>\*</sup>The full texts of the phrases are shown in Section 16.



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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
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# 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.

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

PH

Not Measured

Melting point / freezing point

Initial boiling point and boiling range

Flash Point

Evaporation rate (Ether = 1)

Flammability (solid, gas)

Not determined

Not Measured

Not Measured

Not Measured

Not Applicable

Upper/lower flammability or explosive limits Lower Explosive Limit: Not Measured

**Upper Explosive Limit:** Not Measured

Vapor pressure (Pa)Not MeasuredVapor DensityNot Measured

Specific Gravity 2.5
Solubility in Water None

Partition coefficient n-octanol/water (Log Kow)Not MeasuredAuto-ignition temperatureNot MeasuredDecomposition temperatureNot MeasuredViscosity (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	14.	Transpor	t infor	mation
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DOT (Domestic Surface Transportation)

IMO / IMDG (Ocean Transportation)

ICAO/IATA

14.1. UN number

Not Applicable

Not Regulated

Not Regulated



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Not Regulated

**14.2. UN proper shipping** Not Regulated Not Regulated

name

**14.3. Transport hazard DOT Hazard Class:** Not **IMDG:** Not Applicable **Air Class:** Not Applicable

class(es) Applicable Sub Class: Not Applicable

**14.4. Packing group** Not Applicable Not Applicable Not Applicable

14.5. Environmental hazards

**IMDG** Marine Pollutant: No

14.6. Special precautions for user

No further information

# 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected

regulations are represented.

**Toxic Substance** All components of this material are either listed or exempt from listing on the TSCA

Control Act (TSCA) Inventory.
WHMIS Classification 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** 

# Product Description: Material Safety Data Sheet

953-1CN

TAN

ACRYLIC ENAMEL

(AP1 - Aerosol Product)

#### Section 1: Manufacturer Identification

Manufactured By:

Custom-Pak Products Inc.

Germantown, WI 53022

Formula # 32A029N12

Company Phone Number: (262) 251-6180 24 Hour Emergency: (800) 688-4005

Foreign Emergency: (01)(262) 236-8130 [USA]

Date MSDS Printed & Reviewed: 07/13/07 Last Formula Revision Date: 05/04/06

MANUFACTURED FOR: (C1078) KNAACK MFG. CO

CRYSTAL LAKE, IL 60014

#### Section 2: Composition/Information on Ingredients

				SARA 313	LISTED	CARCINO	GEN BY:
#	COMPONENT	CAS#	% by WT.	LISTED	NTP	IARC	OSHA
1	ACETONE	67-64-1	25-31	N	N	N	N
2	XYLENE	1330-20-7	15-21	Y	N	N	$\mathbf{N}$
3	PROPANE	74-98-6	15-21	N	N	N	N
4	N-BUTANE	106-97-8	5 - 8	N	N	N	$\mathbf{N}$
5	*ETHYLBENZENE	100-41-4	3 - 5	Y	N	Y	$\mathbf{N}$
6	AROMATIC-100	64742-95-6	1-3	N	N	N	${f N}$
7	1,2,4-TRIMETHYLBENZENE	95-63-6	1-3	N	N	N	${f N}$
8	N-BUTYL ACETATE	123-86-4	1-3	${f N}$	N	N	N
*Se	e Section 15 and Section 11						

See Section 15 and Section 11

#### Section 3: Hazards Identification

Emergency Overview: DANGER! Extremely Flammable. Contents Under Pressure.

Appearance/Odor: Liquid Spray Mist / Solvent Odor

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Eye contact, skin contact, ingestion, and inhalation Contact may cause redness, irritation, tearing, and blurred vision

Skin: Contact may dry skin causing cracks and irritation

May be harmful if swallowed Ingestion:

Inhalation: Exposure to high concentrations of vapors may cause drowsiness, breathing

difficulty, respiratory irritation, or headaches. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or

fatal.

# Product Description: Material Safety Data Sheet

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ACRYLIC ENAMEL

(AP1 - Aerosol Product)

# Medical Conditions Aggravated by Exposure:

Asthma and other respiratory ailments.

Target Organs: Kidney Liver Lung Brain

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Section 4: First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If

irritation develops get medical attention.

Skin Contact: Remove contaminated clothing and wash before reuse. Wash skin with soap

and water. Get medical attention if irritation develops.

Move to fresh air. Contact emergency medical support if breathing Inhalation:

stops or is irregular.

Ingestion: Do NOT induce vomiting. Get medical attention immediately.

#### Section 5: Fire Fighting Measures

Suitable Extinguishing Media: CO2 (Carbon Dioxide), dry chemical, or water fog. Unsuitable Extinguishing Media: Water spray may be unsuitable. However, if water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible explosion when exposed to extreme

Products of Combustion: These products are carbon oxides (CO,CO2). Protection of Firefighters: Full protective equipment including self-contained breathing apparatus should be used.

## Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8. Environmental Precautions: None known.

# Product Description:

# Material Safety Data Sheet

953-1CN TAN

ACRYLIC ENAMEL

(AP1 - Aerosol Product)

Methods of Containment: Absorb spilled liquid in suitable material.

Methods of Clean-up: Use spark-proof tools to sweep or scrape up and containerize.

Other Information: Ventilate the area.

#### Section 7: Handling and Storage

#### Handling:

Vapors may ignite explosively. Prevent buildup of vapors; use with adequate ventilation. Keep from sparks, heat, flame or other heat sources. Do not smoke. Turn off pilot lights, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Do not puncture or incinerate (burn) container.

#### Storage:

Store in dry, well-ventilated area and in accordance with federal, state, and local regulations. Do not expose to heat or store at temperatures above 48 C (120 F). If storing in cold temperatures, allow product to warm to room temperature before use.

#### Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

#	COMPONENT	ACGIH TLV-STEL	ACGIH TLV-TWA	OSHA PEL-TWA
1	ACETONE	750 ppm	500 ppm	1000 ppm
2	XYLENE	150 ppm	100 ppm	100 ppm
3	PROPANE	1800 ppm	2500 ppm	1000 ppm
4	N-BUTANE	N/E	800 ppm	800 ppm
5	*ETHYLBENZENE	125 ppm	100 ppm	100 ppm
6	AROMATIC-100	N/E	100 ppm	100 ppm
7	1,2,4-TRIMETHYLBENZENE	N/E	N/E	N/E
8	N-BUTYL ACETATE	N/E	150 ppm	150 ppm
*Se	e Section 15 and Section 11			

Engineering Controls: Not generally required if product is applied in small quantities. If product is applied in larger quantities, provide ventilation to keep air contamination below OSHA permissible exposure limits and ACGIH TLV exposure levels.

**Eye/face Protection:** Wear safety glasses with side shields. Have eye wash facilities immediately available.

Skin Protection: Chemical resistant gloves if contact is likely.

# Product Description: Material Safety Data Sheet

953-1CN TAN ACRYLIC ENAMEL

(AP1 - Aerosol Product)

Respiratory Protection: Use NIOSH-approved air-purifying respirator with organic cartridge or canister if exposure cannot be controlled within applicable limits with ventilation.

General Hygiene Considerations: Wash thoroughly after handling.

## Section 9: Physical and Chemical Properties

Color: see product description

Solvent Odor Odor:

Physical State: Aerosol - Pressurized Liquid Freezing Point: Not Established (mixture)

Boiling Range: <-18 C to 177 C (<0 F to 350 F)

Flash Point: <-18 C (<0 F)

Evaporation Rate: Faster than ether

Upper Flammability Limit: Not Established (mixture) Lower Flammability Limit: Not Established (mixture) Vapor Pressure: Approximately 50 psig @ 10 C (70 F)

Specific Gravity: 0.793 @15 C (60 F) Solubility (water): Negligible Percent Volatile, wt. %: 78.26

VOC Percent (CA): 49.26 MIR Number (CA): 1.808

Coating Category (CA): EXACT MATCH FINISH: INDUSTRIAL

# Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Keep away from heat, sparks, and flames.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: by fire - Carbon Dioxide and Carbon Monoxide

Possibility of Hazardous Reactions: Will not occur.

Product Description:

# Material Safety Data Sheet

953-1CN

TAN ACRYLIC ENAMEL (AP1 - Aerosol Product)

# Section 11: Toxicological Information

#	COMPONENT	LD50 Oral	LD50 Dermal
•			
1	ACETONE	1000 mg/kg	2400 mg/kg
2	XYLENE	4300 mg/kg	1700 mg/kg
3	PROPANE	1000 mg/kg	1800 mg/kg
4	N-BUTANE	N/E	N/E
5	*ETHYLBENZENE	3500 mg/kg	15400 mg/kg
6	AROMATIC-100	N/E	N/E
7	1,2,4-TRIMETHYLBENZENE	N/E	N/E
8	N-BUTYL ACETATE	N/E	N/E
*Se	e Section 15		

See Section 3 for other acute effect information.

Chronic Effects: Prolonged over-exposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems. Reports have associated the repeated and prolonged occupational OVER-EXPOSURE to solvents with brain and nervous system damage. The deliberate misuse by concentrating and inhaling the vapors may be harmful or fatal. Carcinogenicity: See Section 2 for additional information.

\* Ethylbenzene has been classified as a (Group 2B) possible human carcinogen based on tests on laboratory animals by (IARC) The International Agency for Research on Cancer. There is inadequate evidence for cancer in exposed humans.

# Section 12: Ecological Information

No data available.

## Section 13: Disposal Considerations

Do not puncture, incinerate or place container in trash compactor. Dispose of product in accordance with Federal, State, and Local regulations. Empty containers are 95% steel; recycle where allowed.

# Product Description:

# Material Safety Data Sheet

953-1CN TAN

ACRYLIC ENAMEL

(AP1 - Aerosol Product)

# Section 14: Transportation Information

#### US DOT (Ground)

Proper Shipping Name: CONSUMER COMMODITY

Hazard Class: ORM-D

#### US DOT (Air)

Proper Shipping Name: CONSUMER COMMODITY

Hazard Class: ORM-D-AIR

#### IATA/ICAO (International Air)

Proper Shipping Name: AEROSOLS, FLAMMABLE; Class: 2.1; UN1950; Packing Instruction: Y203; Authorization: LTD. QTY.; FLAMMABLE GAS label required on box.

#### IMDG/IMO (International Maritime - ocean)

Proper Shipping Name: AEROSOL PRODUCT, LTD QTY, IMDG Class 2, Page 2102, UN1950, Packing Group II.

No component of this product is listed as a Marine Pollutant (49 CFR 172,101,Appendix B).

#### Section 15: Regulatory Information

#### International Chemical Inventory

TSCA: United States The components of this product are listed on the TSCA inventory.

DSL: Canada The components of this product are listed on the DSL inventory.

AICS: Australia The components of this product are listed on the AICS inventory.

#### Section 313 Toxic Chemicals

See section 2. Chemicals marked with a "Y" are subject to the SARA reporting requirements under 40 cfr 372.45(c)(5).

\*California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

# Section 16: Other Information

HMIS: Hazardous Material Identification System

Health - 2 Fire - 4 Reactivity - 1

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard,

4 = extreme hazard

This MSDS is based on information believed to be reliable and accurate. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State and Local laws and regulations.

# SAFETY DATA SHEET ABC DRY CHEMICAL

## **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: <a href="www.buckeyefire.com">www.buckeyefire.com</a>
Email Address: <a href="mailto:bfec@buckeyef.com">bfec@buckeyef.com</a>

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

Prescutionary 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

# SAFETY DATA SHEET ABC DRY CHEMICAL

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 7727-37-9

#### **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**

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.

<sup>\* %</sup> is rounded to the nearest appropriate number. Values are not to be considered product specifications

# SAFETY DATA SHEET ABC DRY CHEMICAL

# **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

Monoammonium phosphate Particulates Not Otherwise Classified Particulates Not Otherwise Classified
Total Dust-15 mg/m³ Total Dust-10 mg/m³

Respirable Fraction- 5 mg/m³ Respirable Fraction- 3 mg/m³

Barium sulfate Particulates Not Otherwise Classified Particulates Not Otherwise Classified

Total Dust- 15 mg/m³ Total Dust- 10 mg/m³ Respirable Fraction- 5 mg/m³ Respirable Fraction- 3 mg/m³

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. Vapor Pressure: N/A Specific Gravity: 0.075 lb./ft³@, 70°F as vapor Boiling Point: -321°F

Solubility: N/A Explosive or Oxidizing Properties: None

pH: N/A

Flash Point: Nonflammable Flammability: Nonflammable

# SAFETY DATA SHEET ABC DRY CHEMICAL

# **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.

# SAFETY DATA SHEET ABC DRY CHEMICAL

# **SECTION XV. Regulatory Information**

International Inventory Status: All ingredients are on the following inventories

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

#### European Risk and Safety Phrases:

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:

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:

Chemicals in this product are covered under the specific State regulations noted:

Alaska Designated Toxic and Hazardous Substances- None

California Permissible Exposure Limits for Chemical Contaminants- None

Florida Substance list- Mica dust Pennsylvania Hazardous Substance List- None Toxic Substance List- No Rhode Island Hazardous Substance List- Mica dust Illinois Section 302/303 List- None Hazardous Substance List- No Kansas Texas Substance list- Mica dust West Virginia Hazardous Substance List- None Massachusetts Minnesota List of Hazardous Substances- None Wisconsin Toxic and 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

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

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.



X Close this window

SDS

Common Name: ABC DRY CHEMICAL FIRE EXTINGUISHANT

Manufacturer: BUCKEYE FIRE EQUIPMENT

SDS Revision Date: 4/1/2015 SDS 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

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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

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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

<sup>\* %</sup> 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

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

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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

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EXPOSURE GUIDELINES:

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

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SILICA 6 MG/M3 10 MG/M3

STANNOUS OCTOATE .1 MG/M3 .1 MG/M3

SILICONE NOT REGULATED NOT REGULATED

PIGMENT NOT REGULATED NOT REGULATED

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

#### RESPIRATORY PROTECTION:

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

#### EYE PROTECTION:

WEAR CHEMICAL GOGGLES OR FULL-FACE AIR-PURIFYING RESPIRATOR.

#### SKIN PROTECTION:

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

# **SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES**

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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**

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STABILITY: STABLE

#### INCOMPATIBLES:

MAGNESIUM, STRONG OXIDIZERS SUCH AS CALCIUM HYPOCHLORITE (POOL CHLORINE), STRONG ALKALIS, AND ISOCYANURIC ACIDS.

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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

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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**

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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**

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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. USE CLASS 2.2, NON-FLAMMABLE GAS, WHEN SHIPPING VIA AIR.

#### **SECTION XV. REGULATORY INFORMATION**

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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  $8\,(\mathrm{D})$ .

STATE REGULATORY INFORMATION:

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

ALASKA:

DESIGNATED TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA:

FLORIDA:

PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS: NONE

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**

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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.



# **SAFETY DATA SHEET**

# Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ABC Dry Chemical Fire Extinguishant

Other Identifiers: Multi-purpose Dry Chemical

Product Code(s): CH555, F13, F11

Model Code(s) of Extinguishers: 402, IS 18ABC, IS35ABC, IS 45ABC, 13ABC,

V25ABC, VH25ABC, V30ABC, VH30ABC, V50ABC,

VS50ABC, VS75ABC, V250ABC

Recommended Use: Fire suppression, not for human

or animal drug use.

Manufacturer: AMEREX CORPORATION

Internet Address: <u>www.amerex-fire.com</u>

Address: 7595 Gadsden Highway, P.O. Box 81

Trussville, AL 35173-0081

Company Telephone: (205) 655-3271

E-mail Address: info@amerex-fire.com

Emergency Contacts: Chemtrec 1(800) 424-9300 or

(703) 527–3887

Revised: 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 Phrases**

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.	
		Call a doctor if you feel unwell.	
	321	Specific treatment (see Section 4. First Aid Measures)	
362 Take off contaminated		Take off contaminated clothing.	
302+352 IF ON SKIN: Wash with plenty of water.		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 II		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.	

<sup>\*-</sup> 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: Not flammable Flash Point: Not determined

Suitable Extinguishing Media: Non-combustible. Use extinguishing media suitable

for surrounding conditions.

Hazardous Combustion Products: Carbon oxides

Page 3 of 12 Pages

**Explosion Data:** 

Sensitivity to Mechanical Impact: Not sensitive Sensitivity to Static Discharge: Not sensitive

Unusual fire/explosion hazards: In a fire this material may decompose, releasing

oxides of carbon, potassium and nitrogen (see

Section 10).

Protective Equipment and

Precautions for Firefighters: 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:** 

Methods for Containment: Prevent further leakage or spillage if safe to

do so.

NA

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).

Keep product in original container or extinguisher. Conditions for Safe Storage:

> 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.

# Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

<sup>\*</sup>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

# <u>Personal Protective Equipment – PPE Code E:</u>

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-to-mouth contact when handling. Wash thoroughly after handling.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow powder, finely divided odorless

solid

Molecular Weight: NH4H2PO4: 115.03

Odor: Odorless

Odor Threshold:

No information available

Decomposition Temperature <sup>o</sup>C: 100 - 120

Freezing Point °C:

Initial Boiling Point °C:

Physical State:

No information available

No information available

Crystalline Powder

pH: Approximately 4.4 to 4.9

Flash Point <sup>o</sup>C: None Autoignition Temperature <sup>o</sup>C: None

Boiling Point/Range <sup>o</sup>C: No information available

Melting Point/Range <sup>o</sup>C: NH4H2PO4: 190

Flammability/Explosion Limits in Air <sup>o</sup>C: Upper – None; Lower-None

Explosive Properties: None Oxidizing Properties: None

Volatile Component (%vol) Not applicable

Evaporation Rate:

Vapor Density:

Vapor Pressure:

No information available
No information available
No information available
NH4H2PO4: 1.41 mm/Hg

Specific gravity at 25 °C: NH4H2PO4: 1.80 Solubility: 40.4 g/100 ml

Partition Coefficient: NH4H2PO4 Est: -4.11 Viscosity: No information available

NOTE: NH4H2PO4 - Monoammonium Phosphate

# Section 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling

conditions.

Incompatibles: Strong oxidizing agents; Strong acids; sodium

hypochlorite and chlorine compounds. Protect from

moisture

Conditions to Avoid: Storage or handling near incompatibles.

Hazardous Decomposition Products: Carbon, nitrogen, and potassium oxides. Heat of fire

may release carbon monoxide.

Possibility of Hazardous Reactions: None

Hazardous Polymerization Does not occur

# Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin and eye contact.

Symptoms:

Inhalation: Irritation, coughing.

Eyes: Irritation. Skin: Irritation.

Acute Toxicity: Relatively non-toxic.

Chronic Toxicity:

Short-term Exposure: None known.

Long-term Exposure: As with all dusts, pneumoconiosis, or "dusty lung"

disease, may result from chronic exposure.

**Acute Toxicity Values - Health** 

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

Reproductive Toxicity: This product's ingredients are not known to have

reproductive or teratogenic effects.

Target Organs and Effects (TOST): 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

phosphorus to plant life.

Persistence/Degradability: 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

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;	6.70e+05 mg/L Gr. Algae 96 hr	
	9.4e+06 mg/l Daphnid 48 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 Use appropriate PPE when handling, and wash

thoroughly after handling (see Section 8).

Waste Disposal Considerations Dispose in accordance with federal, state, and local

regulations.

Contaminated Packaging 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:
NA
Transport Hazard Class:
NA
Packing Group:
NA
Marine Pollutant?:
NO

IATA Not regulated

DOT Not regulated

NOTES:

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: Xn - 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

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:**

### **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

<sup>\* -</sup> 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.

# Other:

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 17-June-2012 Revision Date 13-March-2018

Revision Notes None

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

#### BADGER POWHATAN -- MULTI-PURPOSE AMMONIUM PHOSPHATE ABC -- 6850-00F004269

```
Product ID: MULTI-PURPOSE AMMONIUM PHOSPHATE ABC
MSDS Date:11/01/1986
FSC:6850
NIIN:00F004269
MSDS Number: BBPWQ
=== Responsible Party ===
Company Name: BADGER POWHATAN
Address:RT. 29 NORTH
Box:7146
City:CHARLOTTESVILLE
State:VA
ZIP:22906
Info Phone Num: (804) 973-4361
Emergency Phone Num: (804) 973-4361
CAGE: BADGE
=== Contractor Identification ===
Company Name: BADGER POWHATAN
Address:RT 29 NORTH
Box:7146
City:CHARLOTTESVILLE
State:VA
ZIP:22906
Country:US
Phone: 804-973-4361
CAGE: BADGE
====== Composition/Information on Ingredients ========
Ingred Name:MICA - SILICATES (< 1% CRYSTALLINE SILICA)</pre>
CAS:12001-26-2
RTECS #: VV8760000
Fraction by Wt: <5%
OSHA PEL: 20 MPPCF
ACGIH TLV:3 MG/M3 RDUST; 9293
Ingred Name: MONOAMMONIUM PHOSPHATE
CAS:7784-30-7
RTECS #:TB6450000
======== Hazards Identification ==============
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO
                                IARC:NO
                                           OSHA:NO
Health Hazards Acute and Chronic: INHALATION: MAY CAUSE TRANSIENT COUGH,
   IRRITTION OF AIRWAYS, SHORTNESS OF BREATH, PNEUMONCONIOSIS, ASTHMA,
   BRONCHITIS, & OTHER RESPIRATORY ILLNESSES. SKIN; MILDLY IRRITATING.
Explanation of Carcinogenicity:NONE
Effects of Overexposure: INHALATION; TREAT AS A MINERAL DUST, TRANSIENT
   COUGHT, IRRITATION OF AIRWAYS, SHORTNESS OF BREATH,
   PNUEMONCONIOSIS, ASTHMA, BRONCHITIS, & OTHER RESPIRATORY ILLNESSES
============= First Aid Measures ============
First Aid: INHALATION: MVOE VICTIM TO FRESH AIR. SKIN; WASH AFFECTED
   AREA W/SOAP & WATER. EYES: FLUSH W/LARGE AMOUNTS OF WATER FOR AT
   LEAST 15 MINUTES. SEEK MED ATTN.
Flash Point: NON-COMBUSTIBLE
Extinguishing Media: THIS MATERIAL IS A FIRE EXTINGUISHING AGENT.
========= Accidental Release Measures ===========
```

REUSE.

========== Handling and Storage ==========

Handling and Storage Precautions: SHOULD BE STORED IN ORIGINAL CONTAINER
OR IN SEALED EXTINGUISHERS. STORE EXTINISHER SECURELY.
Other Precautions: DON'T MIX AGENTS DON'T EXPOSE CYLINDER TO SEVERE

Other Precautions:DON'T MIX AGENTS. DON'T EXPOSE CYLINDER TO SEVERE PHYSICAL IMPACT OR DIRECT HEAT. DON'T OVER-PRESSURIZE CYLINDERS.

======= Exposure Controls/Personal Protection =========

Respiratory Protection: DUST RESPIRATOR APPROVED BY NIOSH/MSA SCHEDULE

TC-21-C

Ventilation:MECHANCIAL: RECOMMENDED

Protective Gloves:RUBBER Eye Protection:SAFETY GLASSES Supplemental Safety and Health

======== Physical/Chemical Properties =========

Melt/Freeze Pt:M.P/F.P Text:374F

Spec Gravity:1.80

Solubility in Water:SLIGHT

Appearance and Odor: YELLOW POWDER W/NO APPRECIABLE ODOR.

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
DON'T MIX W/DIFFERENT TYPES OF DRY CHEMICAL EXTINGUISHING AGENTS
Hazardous Decomposition Products:AMMONIA

======= Disposal Considerations ==========

Waste Disposal Methods:IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS FOR AN INERT NON-METALLIC POWDER.

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# Safety Data Sheet acc. to ISO 11014

Printing date 05/18/2015 Version number 2 Reviewed on 10/31/2014

#### 1 Identification

· Product identifier

· Trade name: CP 637

CP 638

- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Construction chemicals
- · Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Hilti, Inc.

5400 South 122nd East Ave. US-Tulsa, OK 74146 Phone: (800) 879-8000 Fax: (800) 879-7000

Fax: (800) 879-5000 Fax: (800) 879-7000 Español: (800) 879-5000

· Information department:

chemicals.hse@hilti.com

see section 16

· Emergency telephone number:

Tox Info Suisse - 24 h Service

Tel.: 0041 / 44 251 51 51 (international)

Chem-Trec

Tel.: 1 800 424 9300

#### 2 Hazard(s) identification

- · Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS).
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable
- · Classification system:

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system
- · NFPA ratings (scale 0-4)



 $\begin{aligned} & \text{Health} = 0 \\ & \text{Fire} = 0 \\ & \text{Reactivity} = 0 \end{aligned}$ 

- Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

#### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Fire prevention compound with a hydraulic bonding agent base

· Dangerous components:		
1317-65-3	Calciumcarbonat CaCO3	25-50%
93763-70-3	Perlite	2.5-10%

### 4 First-aid measures

- $\cdot \ Description \ of \ first \ aid \ measures$
- $\cdot$  General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing Seek immediate medical advice.
- · Information for doctor
- $\cdot \textbf{Most important symptoms and effects, both acute and delayed} \ No \ further \ relevant \ information \ available.$
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

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(Contd. on page 2)



# Safety Data Sheet acc. to ISO 11014

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Reviewed on 10/31/2014

(Contd. of page 1)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents Not applicable
- · For safety reasons unsuitable extinguishing agents Not applicable
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling
- · Precautions for safe handling Prevent formation of dust.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- ·Storage
- · Requirements to be met by storerooms and receptacles: keep containers securely closed and dry, store at 5 30 °C / 41 86 °F
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from humidity and water.
- Storage class 10
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Components	· Components with limit values that require monitoring at the workplace:				
1317-65-3 Ca	1317-65-3 Calciumcarbonat CaCO3				
ACGIH TWA	Long-term value: 3*/10** mg/m³ *Respirable particles / ** Inhalable particles				
OSHA PEL	Long-term value: 5* / 15** mg/m³  * Respirable fraction / ** Total dust				
OSHA TWA	Long-term value: 5* / 15** mg/m³  * Respirable fraction / ** Total dust				
TWA	Long-term value: 10 mg/m³				
93763-70-3 Pe	93763-70-3 Perlite				
PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction				
REL	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction				
TLV	TLV withdrawn				

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Use skin protection cream for skin protection.

· Breathing equipment: If dust is produced.

Filter P2

· Protection of hands:



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 3)



# Safety Data Sheet acc. to ISO 11014

Printing date 05/18/2015 Version number 2 Reviewed on 10/31/2014

(Contd. of page 2)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Synthetic gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles.

EN 166 + EN 170

Body protection:



Protective work clothing.

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Powder Color: White Odorless Odor:

· Change in condition

Melting point/Melting range: Not determined. Boiling point/Boiling range: undetermined

Flash point: Not applicable

· Ignition temperature:

Decomposition temperature: Not determined

· Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Not determined · Density:

Solubility in / Miscibility with

Soluble Water:

Other information No further relevant information available.

# 10 Stability and reactivity

- · Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- $\cdot$  Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eve: Irritating effect.
- · Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed

NTP (National Toxicology Program)

None of the ingredients is listed

(Contd. on page 4)



# Safety Data Sheet acc. to ISO 11014

Version number 2 Reviewed on 10/31/2014

(Contd. of page 3)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

#### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: Not determined
- · Additional ecological information:
- · General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · European waste catalogue:

17 01 01 concrete

- · Uncleaned packagings:
- · Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Disposal must be made according to official regulations.

4 Transport information	
· UN-Number	-
· UN proper shipping name	-
· Transport hazard class(es)	-
· Packing group	-
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MAI the IBC Code	RPOL73/78 and Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- ·Sara
- Section 355 (Extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

(Contd. on page 5)



# **Safety Data Sheet** acc. to ISO 11014

Reviewed on 10/31/2014 Version number 2

(Contd. of page 4)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: not required.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS:

Hilti Corporation Business Unit Chemicals

Quality/Safety/Environment

FL-9494 Schaan / Liechtenstein

chemicals.hse@hilti.com Tel.: +423 234 3004 FAX.: +423 234 3462

 $\cdot$  Date of preparation / last revision  $05/18/2015 \ / \ 1$ 

· Abbreviations and acronyms:

AGGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)

\* Data compared to the previous version altered.

# SAFETY DATA SHEET: EDTA Tetrasodium Tetrahydrate

#### 1. IDENTIFICATION

Product Name: EDTA Tetrasodium Tetrahydrate

Synonyms: Versene 220; Ethylenediaminetetraacetate tetrasodium tetrahydrate

Formula and Formula Weight: C10H12N2O8Na4 4H2O 452.2

Integra numbers beginning with: E874.50

Recommended Use: Commercial/industrial use Restrictions on Use: No information available

**INTEGRA Chemical Company** 

1216 6th Ave N Kent WA 98032 Phone: 253-479-7000 24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

#### 2. HAZARDS IDENTIFICATION

OSHA Classification:Hazard Category:Hazard Statement:Acute Toxicity - Oral4Harmful if swallowed.Eye Damage/Irritation1Causes serious eye damage.

Signal Word: Danger



#### **Precautionary Statements**

Prevention:

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear eye protection, face protection.

Response

If swallowed: Call a poison center, doctor 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.

Immediately call a poison center, doctor.

Rinse mouth.

Disposal

Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

ComponentSynonymsCAS #% WeightEthylenediaminetetraacetate tetrasodium tetrahydrateEDTA tetrasodium salt tetrahydrate13235-36-4100

### 4. FIRST AID MEASURES

Inhalation: Remove person to fresh air.

Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate

medical attention.

Skin Contact: Wash with soap and water. Seek medical attention if irritation develops.

Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek

immediate medical attention.

Additional notes: Symptoms and effects include eye, skin, respiratory, gastrointestinal irritation; eye burns, eye damage, blindness.

#### 5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam.

Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable

respiratory protection.

Specific Hazards: None identified

Hazardous combustion products: Oxides of nitrogen, oxides of carbon. Oxides of sodium. Ammonia.

#### 6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into clean, dry disposal container.

Flush spill area with water.

#### 7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong oxidizers. Aluminum.

Storage and Handling: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and

protect them from physical damage.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear eye protection, face protection.

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

Ethylenediaminetetraacetate tetrasodium tetrahydrate

None identified

Engineering Controls:

Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection:

If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate

filter.

Skin/Eye Protective Equipment:

Safety goggles, protective clothing and gloves appropriate for the risk of exposure.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Apearance: White crystals Odor: Odorless Odor Threshold: Not available pH: Not available Melting/Freezing Point: Not available Initial Boiling Point and Boiling Range: Not available Flash Point: Not available **Evaporation Rate:** Not available Flammability: Not available Flammable or Explosive Upper: Not available Limits (% by volume in air) Lower: Not available Vapor Pressure: Not available Vapor Density: Not available Relative Density: Not available Solubility: Soluble in water Partition Coefficient: n-octanol/water Not available Auto-Ignition Temperature: Not available Decomposition Temperature: Not available Viscosity: Not available

#### 10. STABILITY AND REACTIVITY

Reactivity: No information available

Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur

Conditions to Avoid: Elevated temperatures can cause product to decompose.

Incompatibles: Incompatible with strong oxidizers. Aluminum.

Decomposition Products: Oxides of nitrogen, oxides of carbon. Oxides of sodium. Ammonia.

# 11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:

Inhalation: Inhalation may irritate the nose, throat and upper respiratory tract.

Skin Contact: No irritation is likely upon brief contact. May be irritating after prolonged or repeated contact. More severe reaction may

occur if skin is damp or scratched.

Eye Contact: Contact may cause severe irritation or burns. Permanent damage or blindness may result.

Ingestion: Low in toxicity, however, ingestion may irritate the gastrointestinal system.

Chronic Effects: None identified
Target Organs: None identified
Additional Effects: None identified
Reproductive Effects: None identified
Carcinogenicity: None identified

**Toxicity Data:** 

Ethylenediaminetetraacetate tetrasodium tetrahydrate No information available.

#### 12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: Terrestrial Toxicity Data:

Ethylenediaminetetraacetate tetrasodium tetrahydrate No information available No information available

Persistence and degradability: No information available

Bioaccumulative potential:

Mobility in soil:

Other adverse effects:

No information available

No information available

#### 13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

# 14. TRANSPORTATION INFORMATION

This product is not a regulated material for domestic ground transporation.

Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

#### 15. REGULATORY INFORMATION

Ethylenediaminetetraacetate tetrasodium tetrahydrate is listed in the TSCA inventory.

#### **16. OTHER INFORMATION**

OSHA SDS #: 25620 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

The information presented above is offered for informational purposes only. This SDS, and the associated product, is intended for use only by technically qualified persons, and at their own discretion and risk. Since conditions and manner of use are outside the control of Integra Chemical Company, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

\*\*\*\*\* END OF SDS \*\*\*\*\*



# **Safety Data Sheet**

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name FORAY® ABC Multi-Purpose Dry Chemical

#### 1. Identification

1.1. Product Identifier

Product name FORAY® ABC Multi-Purpose Dry Chemical

1.2. Other means of identification

Product code 078611 Synonyms None

Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

**Recommended use** Fire extinguishing agent.

Uses advised against Consumer use.

1.4. Details of the Supplier of the Safety Data Sheet

Company Name Tyco Fire Protection Products

One Stanton Street Marinette, WI 54143-2542 Telephone: 715-735-7411

Contact point Product Stewardship at 1-715-735-7411

E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

#### 2. Hazards Identification

#### Classification

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

#### 2.2. Label Elements

#### **Hazard Statements**

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

#### **Precautionary Statements**

#### 2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

#### 2.4. Other Information

Unknown Acute Toxicity 98.05749% of the mixture consists of ingredient(s) of unknown toxicity



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# 3. Composition/information on Ingredients

# 3.1. Mixture

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
Mica	12001-26-2	1 - 5

#### 4. First aid measures

#### 4.1. Description of first aid measures

**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 Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

If swallowed. Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion

#### 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

Treat symptomatically. Note to physicians

#### 5. Fire-fighting measures

#### 5.1. Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 5.2. Unsuitable Extinguishing Media

None.

#### 5.3. Specific Hazards Arising from the Chemical

None in particular.

#### 5.4. Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

# 5.5. 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

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#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Provide adequate ventilation. Avoid creating dust. Avoid breathing

dust/fume/gas/mist/vapors/spray.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into **Environmental Precautions** 

surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for Containment** Stop leak if you can do it without risk. If sweeping of a contaminated area is necessary use

> a dust suppressing agent which does not react with product. Dike far ahead of spill; use dry sand to contain the flow of material. Absorb with earth, sand or other non-combustible

material and transfer to containers for later disposal.

Methods for Cleaning Up Following product recovery, flush area with water.

#### 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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Guard against **Storage Conditions** 

dust accumulation of material. Use care in handling/storage.

**Incompatible Materials** Strong acids.

#### 8. Exposure Controls/Personal Protection

# 8.1. Control Parameters

**Exposure guidelines** 

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
Attapulgite 12174-11-7	TWA: 1 mg/m³ respirable particulate matter	-	-	-
	TWA: 3 mg/m³ respirable particulate matter	TWA: 20 mppcf <1% Crystalline silica	IDLH: 1500 mg/m³ TWA: 3 mg/m³ containing <1% Quartz respirable	TWA 3 mg/m³ (VLE-PPT)
			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	Showers

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Eyewash stations Ventilation systems.

#### 8.3. Individual protection measures, such as personal protective equipment

Avoid contact with eyes. Tight sealing safety goggles. **Eye/Face Protection** 

No special precautions are needed in handling this material. **Skin and Body Protection** 

In case of insufficient ventilation, wear suitable respiratory equipment. **Respiratory Protection** 

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

powder **Physical State** 

Odor odorless Yellow Color

**Odor Threshold** No data available

**Property** Values Remarks • Method

No data available pН No data available Melting point/freezing point 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:

No data available Lower flammability limit: No data available **Vapor Pressure** No data available **Vapor Density** No data available Specific gravity No data available Water Solubility No data available Solubility in Other Solvents No data available No data available **Partition coefficient Autoignition Temperature** No data available **Decomposition Temperature** No data available No data available Kinematic viscosity

# 10. Stability and Reactivity

#### 10.1. Chemical Stability

Stable under recommended storage conditions.

#### 10.2. Reactivity

No data available

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#### 10.3. Possibility of hazardous reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### 10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

#### 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.

**Acute Toxicity** 

#### 11.2. Information on Toxicological Effects

**Symptoms** No information available.

# 11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation
Serious eye damage/eye irritation
Sensitization
Germ Cell Mutagenicity

No information available.
No information available.
No information available.

Carcinogenicity 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.

Chemical name	ACGIH	IARC	NTP	OSHA
Attapulgite	-	Group 3	-	X
12174-11-7				

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen Group 1 - Carcinogenic to Humans

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NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive Toxicity** No information available. STOT - Single Exposure No information available. **STOT - Repeated Exposure** No information available. Target organ effects Respiratory System. **Aspiration Hazard** No information available.

#### 11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 8144 mg/kg

# 12. Ecological Information

#### 12.1. Ecotoxicity

Not classified.

0.02% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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
7631-86-9	Pseudokirchneriella subcapitata	Brachydanio rerio	Ceriodaphnia dubia

# 12.2. Persistence and Degradability

No information available.

#### 12.3. Bioaccumulation

No information available.

#### 12.4. Other Adverse Effects

No information available

# 13. Disposal Considerations

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13.1. Waste Treatment Methods

Disposal of wastes

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

regulations.

Contaminated Packaging Do not reuse container.

### 14. Transport Information

**DOT** NOT REGULATED

TDG NOT REGULATED

MEX NOT REGULATED

ICAO (air) NOT REGULATED

IATA NOT REGULATED

IMDG NOT REGULATED

#### 15. Regulatory Information

#### 15.1. International Inventories

TSCA Complies
DSL/NDSL Complies
ENCS Does not comply
IECSC Complies
KECL Does not comply
PICCS Complies
AICS Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**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	No
Reactive Hazard	No



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#### **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

Chemical name	California Proposition 65	
Attapulgite - 12174-11-7	Carcinogen	
Quartz - 14808-60-7	Carcinogen	

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Mica	X	X	X
12001-26-2			
Silicic Acid/silica gel, Amorphous	=	X	X
7631-86-9			
Quartz	X	X	X
14808-60-7			

# 16. Other information, including date of preparation of the last revision

NFPA Health Hazards 0 Flammability 0 Instability 0 Physical and chemical properties 
HMIS Health Hazards 0 Flammability 0 Physical Hazards 0 Personal Protection X

Revision date 20-Feb-2017

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** 

# HF-95 HYDRAULIC OIL

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010 Date of issue:2/03/2004 Revision date:19/07/2016Supersedes:10/06/2016 Version: 4.4

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form: Mixture

Product name: HF-95 HYDRAULIC OIL

Product code : 4405 Product group : Blend

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

# 1.2.1. Relevant identified uses

Main use category : Industrial use,Professional use,Consumer use Industrial/Professional use spec : Non-dispersive use Used in closed systems

Function or use category : Lubricants and additives

#### 1.2.2. Uses advised against

No additional information available

# 1.3. Details of the supplier of the safety data sheet

Enerpac B.V. Postbus 8097 6710 AB Ede Nederland Tel: +31(0)31-853 59 11

#### 1.4. Emergency telephone number

DE: +49 30 19240

DK: +45 82 12 12 12

ES: +34 91 5620420

FR: +33 1 40 05 48 48

BE: +32 70 245 245

GB: +44 844 892 0111

IT: +39 06 49978000

NL: +31 30 274 88 88

NO: +47 22 59 13 00

PT: +351 21 330 3284

RU: +7 112

SE: +46 8 519 41 183

PL: +48 112

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request

Child-resistant fastening : No Tactile warning : No

#### 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

# Name Product identifier % Classification according to Regulation (EC) No. 1272/2008 [CLP]

Baseoil - unspecified (CAS No) 64742-55-8 (EC no) 265-158-7 (EC index no) 649-468-00-3 10 - 24,99 Asp. Tox. 1, H304

Zinkalkyldithiophosphate (CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) 01-2119493635-27 0,1 - 0,99 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Full text of H-statements: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures after inhalation : Not expected to require first aid measures. First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water

for 10-15 minutes.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. Get immediate

medical advice/attention.

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

Symptoms/injuries after inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: Not expected to present a significant skin hazard under anticipated conditions of normal use.

Symptoms/injuries after eye contact: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.

Symptoms/injuries after ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: Water fog. Foam. Powder. Dry chemical product.

Unsuitable extinguishing media: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

# **6.1.1.** For non-emergency personnel

Protective equipment: Wear suitable protective clothing and gloves.

#### **6.1.2.** For emergency responders

Protective equipment: Wear suitable protective clothing and gloves.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment: Impound and recover large spill by mixing it with inert granular solids.

Methods for cleaning up: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.

Other information: Spill area may be slippery. Use suitable disposal containers.

# 6.4. Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

Handling temperature : < 40 °C

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage temperature: < 40 °C

Storage area: Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

No additional information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

#### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

Additional information: 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

#### 8.2. Exposure controls

Personal protective equipment : Safety glasses. Gloves.

Hand protection: Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

Skin and body protection: No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Oily liquid.
Colour : Blue.

Odour : Characteristic.

Odour threshold : No data available
pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available Freezing point : No data available Boiling point : No data available

Flash point : > 180 °C @ ASTM D92 Auto-ignition temperature : No data available

Decomposition temperature : No data available Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density: No data available Density: 872 kg/m³ @15°C

Solubility : Slightly soluble, the product remains on the water surface.

Log Pow: No data available
Viscosity, kinematic: 32 mm²/s @ 40°C
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

None under normal conditions.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

# 10.4. Conditions to avoid No data available.

#### 10.5. Incompatible materials

Strong oxidizers. acids. Bases.

#### 10.6. Hazardous decomposition products

None under normal conditions.

#### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects Acute toxicity : Not classified

# Baseoil - unspecified (64742-55-8)

LD50 oral rat > 5000 mg/kg LD50 dermal rabbit > 3000 mg/kg

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard : Not classified

Viscosity, kinematic 32 mm<sup>2</sup>/s @ 40°C

# **SECTION 12: Ecological information**

### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

Persistence and degradability Not soluble in water, so only minimally biodegradable.

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Additional information: Dispose in a safe manner in accordance with local/national regulations.

#### SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not regulated for transport

# 14.2. UN proper shipping name

Proper Shipping Name (ADR): Not applicable Proper Shipping Name (IMDG): Not applicable Proper Shipping Name (IATA): Not applicable Proper Shipping Name (ADN): Not applicable

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment

Regulation (EC) No. 453/2010 Proper Shipping Name (RID):

#### Not applicable 14.3.

Transport hazard class(es) ADR Transport hazard class(es) (ADR): Not applicable

IMDG Transport hazard class(es) (IMDG): Not applicable IATA Transport hazard class(es) (IATA): Not applicable ADN Transport hazard class(es) (ADN): Not applicable RID Transport hazard class(es) (RID): Not applicable

#### 14.4. Packing group

Packing group (ADR): Not applicable Packing group (IMDG): Not applicable Packing group (IATA): Not applicable Packing group (ADN): Not applicable Packing group (RID): Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

#### - Rail transport

No data available

# **14.7.** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

#### **SECTION 15: Regulatory information**

# **15.1.** Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

# 15.1.2. National regulations

Germany VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen: Baseoil - unspecified, Zinkalkyldithiophosphate are listed SZW-lijst van mutagene stoffen: Baseoil - unspecified, Zinkalkyldithiophosphate are listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

# Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

**SECTION 16: Other information** 

# **Indication of changes:**

3.2 Composition/informatio n on ingredients Modified

# Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

TWA: Time Weighted Average TLV: Threshold Limit Value

ASTM: American Society for Testing and Materials

ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de

Navigation du Rhin

IMDG: International Maritime Dangerous Goods ICAO: International Civil Aviation Organization IATA: International Air Transport Association

STEL: Short Term Exposure Limit LD50: median Lethal Dose for 50% of subjects

ATE: acute toxicity estimate

LC50: median Lethal Concentration for 50% of subjects

EC50: concentration producing 50% effect

#### Other information:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

#### Full text of H- and EUH-statements:

Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2

Asp. Tox. 1 Aspiration hazard, Category 1

Eye Dam. 1 Serious eye damage/eye irritation, Category 1 H304 May be fatal if swallowed and enters airways

H318 Causes serious eye damage

H411 Toxic to aquatic life with long lasting effects EUH210 Safety data sheet available on request

#### SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010



# HIT-HY 150 MAX

#### Safety information for 2-Component-products

Date of issue: 23/11/2015 Revision date: 23/11/2015 Supersedes: 09/03/2015 Version: 7.1

#### **SECTION 1: Kit identification**

#### 1.1 Product identifier

Trade name HIT-HY 150 MAX



Product code BU Anchor

#### 1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti, Inc. Legacy Tower, Suite 1000 75024 Plano - USA T +1 9724035800 1-800-879-8000 toll free - F +1 918 254 0522

# **SECTION 2: General information**

Storage Storage temperature: 5 - 25 °C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

# **SECTION 3: Kit contents**

#### **Classification of the Product**

#### **GHS-US classification**

 Eye Irrit. 2
 H319

 Skin Sens. 1
 H317

 Repr. 1B
 H360

 Aquatic Acute 1
 H400

#### Label elements

#### **GHS-US labelling**

Hazard pictograms (GHS-US)







GHS07

GHS08

GHS09

Signal word (GHS-US)

Hazardous ingredients Hazard statements (GHS-US)

Precautionary statements (GHS-US)

Danger

methacrylates, dibenzoyl peroxide, boric acid H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child H400 - Very toxic to aquatic life

P201 - Obtain special instructions before use

 $\mbox{P202}$  -  $\mbox{Do}$  not handle until all safety precautions have been read and understood

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash ... thoroughly after handling

01/12/2015

EN (English)

1/21



# HIT-HY 150 MAX

#### Safety information for 2-Component-products

P272 - Contaminated work clothing should not be allowed out of the workplace

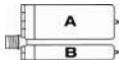
P273 - Avoid release to the environment

#### Additional information

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized



Name	General description	Quantity	Unit	GHS-US classification
HIT-HY 150 MAX, A		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360
HIT-HY 150 MAX, B		1	pcs (pieces)	Skin Sens. 1, H317 Aquatic Acute 1, H400

#### SECTION 4: General advice

General advice For professional users only

# SECTION 5: Safe handling advice

Environmental precautions Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

Storage conditions Keep cool. Protect from sunlight
Precautions for safe handling Wear personal protective equipment

Avoid contact with skin and eyes

Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work

Provide good ventilation in process area to prevent formation of vapour

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local legislation

Store away from other materials

Recover mechanically the product

For containment Collect spillage
Incompatible materials Sources of ignition

Direct sunlight

Incompatible products Strong bases

Strong acids

# **SECTION 6: First aid measures**

First-aid measures after eye contact Rinse immediately with plenty of water

Remove contact lenses, if present and easy to do. Continue rinsing

Obtain medical attention if pain, blinking or redness persist

First-aid measures after ingestion Rinse mouth

Do NOT induce vomiting

Obtain emergency medical attention

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing

Allow breathing of fresh air Allow the victim to rest

First-aid measures after skin contact Wash with plenty of soap and water

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get immediate medical advice/attention

Get medical advice/attention

First-aid measures general Never give anything by mouth to an unconscious person

01/12/2015 EN (English) 2/21



## Safety information for 2-Component-products

If you feel unwell, seek medical advice (show the label where possible)

Symptoms/injuries after eye contact

Causes serious eye irritation

Symptoms/injuries after skin contact

May cause an allergic skin reaction

## **SECTION 7: Fire fighting measures**

Exercise caution when fighting any chemical fire Prevent fire-fighting water from entering environment

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection

Carbon dioxide
Carbon monoxide

## **SECTION 8: Other information**

No data available

01/12/2015 EN (English) 3/21



#### Safety information for 2-Component-products

Date of issue: 23/11/2015 Revision date: 23/11/2015 Supersedes: 09/03/2015 Version: 7.1

## **SECTION 1: Kit identification**

#### 1.1 Product identifier

Trade name HIT-HY 150 MAX



Product code BU Anchor

## 1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti, Inc. Legacy Tower, Suite 1000 75024 Plano - USA T +1 9724035800 1-800-879-8000 toll free - F +1 918 254 0522

## **SECTION 2: General information**

Storage Storage temperature: 5 - 25 °C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

## **SECTION 3: Kit contents**

## **Classification of the Product**

## **GHS-US** classification

 Eye Irrit. 2
 H319

 Skin Sens. 1
 H317

 Repr. 1B
 H360

 Aquatic Acute 1
 H400

#### **Label elements**

#### **GHS-US** labelling

Hazard pictograms (GHS-US)





GHS07

GHS08

GHS09

Signal word (GHS-US)

Hazardous ingredients Hazard statements (GHS-US) Danger methacr

methacrylates, dibenzoyl peroxide, boric acid H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

H400 - Very toxic to aquatic life

Precautionary statements (GHS-US) P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash ... thoroughly after handling

01/12/2015 EN (English) 1/21



#### Safety information for 2-Component-products

P272 - Contaminated work clothing should not be allowed out of the workplace

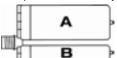
P273 - Avoid release to the environment

#### **Additional information**

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized



Name	General description	Quantity	Unit	GHS-US classification
HIT-HY 150 MAX, A		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360
HIT-HY 150 MAX, B		1	pcs (pieces)	Skin Sens. 1, H317 Aquatic Acute 1, H400

#### SECTION 4: General advice

General advice For professional users only

## SECTION 5: Safe handling advice

Environmental precautions Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

Storage conditions Keep cool. Protect from sunlight
Precautions for safe handling Wear personal protective equipment

Avoid contact with skin and eyes

Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work

Provide good ventilation in process area to prevent formation of vapour

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local legislation

Store away from other materials

Recover mechanically the product

For containment Collect spillage
Incompatible materials Sources of ignition
Direct spillage

Direct sunlight

Incompatible products Strong bases Strong acids

## **SECTION 6: First aid measures**

First-aid measures after eye contact Rinse immediately with plenty of water

Remove contact lenses, if present and easy to do. Continue rinsing

Obtain medical attention if pain, blinking or redness persist

First-aid measures after ingestion Rinse mouth

Do NOT induce vomiting

Obtain emergency medical attention

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing

Allow breathing of fresh air Allow the victim to rest

First-aid measures after skin contact Wash with plenty of soap and water

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get immediate medical advice/attention

Get medical advice/attention

First-aid measures general Never give anything by mouth to an unconscious person

01/12/2015 EN (English) 2/21



## Safety information for 2-Component-products

If you feel unwell, seek medical advice (show the label where possible)

Symptoms/injuries after eye contact

Causes serious eye irritation

Symptoms/injuries after skin contact

May cause an allergic skin reaction

## **SECTION 7: Fire fighting measures**

Firefighting instructions

Use water spray or fog for cooling exposed containers

Exercise caution when fighting any chemical fire Prevent fire-fighting water from entering environment

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection

Hazardous decomposition products in case of

Thermal decomposition generates :

fire

Carbon dioxide Carbon monoxide

## **SECTION 8: Other information**

No data available

01/12/2015 EN (English) 3/21



## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/23/2015 Revision date: 11/23/2015 Supersedes: 04/09/2015 Version: 7.1

## **SECTION 1: Identification**

#### 1.1. Identification

Mixture Product form

Name HIT-HY 150 MAX, B

Product code **BU** Anchor

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier Department issuing data specification sheet

Hilti, Inc. Hilti Entwicklungsgesellschaft mbH

Legacy Tower, Suite 1000 Hiltistrasse 6 75024 Plano - USA

86916 Kaufering - Deutschland T+1 9724035800 T +49 8191 906310 - F +49 8191 90176310

1-800-879-8000 toll free - F +1 918 254 0522 anchor.hse@hilti.com

#### 1.4. Emergency telephone number

Emergency number Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

+1 918 8723000

1-800-879-8000 toll free

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin Sens. 1 H317 - May cause an allergic skin reaction

Aquatic Acute 1 H400 - Very toxic to aquatic life

Full text of H-statements: see section 16

## 2.2. Label elements

## **GHS-US** labelling

Hazard pictograms (GHS-US)





Signal word (GHS-US)

Hazard statements (GHS-US)

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

Precautionary statements (GHS-US) P280 - Wear eye protection, protective clothing, protective gloves

Warning

P262 - Do not get in eyes, on skin, or on clothing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

P302+P352 - If on skin: Wash with plenty of water

01/12/2015 4/21 EN (English)



# HIT-HY 150 MAX, B

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Quartz	(CAS No) 14808-60-7	40 - 60	Carc. 1A, H350
dibenzoyl peroxide	(CAS No) 94-36-0	5 - 10	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400

Full text of H-statements: see section 16

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general Remove/Take off immediately all contaminated clothing. Never give anything by mouth to an

unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow

breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation

or rash occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting.

Obtain emergency medical attention.

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

Symptoms/injuries after skin contact May cause an allergic skin reaction.

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective equipment,

including respiratory protection.

01/12/2015 EN (English) 5/21



# HIT-HY 150 MAX, B

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local legislation.

Recover mechanically the product. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other

exposed areas with mild soap and water before eating, drinking or smoking and when leaving

work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep cool. Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 - 25 °C

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts ar not relevant

for this product.

#### 8.2. Exposure controls

Personal protective equipment Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.



Hand protection Wear protective gloves.

Eye protection Chemical goggles or safety glasses.

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Skin and body protection Wear suitable protective clothing. Environmental exposure controls Avoid release to the environment.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

Other information Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste.

Colour white

Odour characteristic
Odour threshold Not determined

pH ≈ 6

No data available Melting point Freezing point No data available No data available Boiling point Flash point No data available Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available **Explosive limits** No data available Explosive properties Product is not explosive.

Oxidising properties No data available Vapour pressure No data available Relative density No data available Relative vapour density at 20 °C No data available Density 2 g/ml DIN 66137-2 No data available Solubility Log Pow No data available Auto-ignition temperature Not self-igniting 65 °C SADT Decomposition temperature Viscosity No data available No data available Viscosity, kinematic 70 Pa.s HN-0333 Viscosity, dynamic

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

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#### 10.5. Incompatible materials

dibenzoyl peroxide (94-36-0)

Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity Not classified

LD50 oral rat	> 5000 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Weight of evidence)
Skin corrosion/irritation	Not classified
	pH: ≈ 6
Serious eye damage/irritation	Not classified
	pH: ≈ 6
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	Not classified
Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
dibenzoyl peroxide (94-36-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified

Aspiration hazard Not classified

Potential adverse human health effects and

symptoms

Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact May cause an allergic skin reaction.

## SECTION 12: Ecological information

## 12.1. Toxicity

dibenzoyl peroxide (94-36-0)		
LC50 fish 1	2 mg/l (96 h; Poecilia reticulata)	
EC50 Daphnia 1	0.07 mg/l	
LC50 fish 2	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)	
NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)	

## 12.2. Persistence and degradability

, or	
HIT-HY 150 MAX, B	
Persistence and degradability	Not established.

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# HIT-HY 150 MAX, B

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dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.

## 12.3. Bioaccumulative potential

HIT-HY 150 MAX, B		
Bioaccumulative potential	Not established.	
dibenzoyl peroxide (94-36-0)		
Log Pow	3.71 (QSAR; 3.2; Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 22 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

## 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on the global warming No known ecological damage caused by this product.

Other information Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Regional legislation (waste) Disposal must be done according to official regulations.

Waste disposal recommendations Refer to manufacturer/supplier for information on recovery/recycling. Dispose of

contents/container to Avoid release to the environment, Refer to manufacturer/supplier for

information on recovery/recycling.

Ecology - waste materials Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping nam	16		
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(	es)		
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :
Yes	Yes	Yes	Yes
Marine pollutant : Yes			
ADR 5.2.1.8.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)			
No supplementary information available			

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#### 14.6. Special precautions for user

- Overland transport
- Transport by sea

No data available

- Air transport

No data available

- Rail transport

Carriage prohibited (RID)

No

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## dibenzoyl peroxide (94-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

#### 15.2. International regulations

#### **CANADA**

No additional information available

## **EU-Regulations**

No additional information available

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Sens. 1 H317 Aquatic Acute 1 H400

Full text of hazard classes and H-statements : see section 16

#### **National regulations**

## Quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

#### 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

Revision date 11/23/2015
Other information None.

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## Full text of H-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Org. Perox. B	Organic Peroxides, Type B
Skin Sens. 1	Sensitisation — Skin, Category 1
H241	Heating may cause a fire or explosion
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H350	May cause cancer
H400	Very toxic to aquatic life

SDS\_US\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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Date of issue: 11/23/2015 Revision date: 04/09/2015 Supersedes: 11/23/2015 Version: 7.1

## **SECTION 1: Identification**

#### 1.1. Identification

Mixture Product form

Name HIT-HY 150 MAX, A

Product code **BU** Anchor

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier Department issuing data specification sheet

Hilti, Inc. Hilti Entwicklungsgesellschaft mbH Legacy Tower, Suite 1000 Hiltistrasse 6

75024 Plano - USA 86916 Kaufering - Deutschland

T+1 9724035800 T +49 8191 906310 - F +49 8191 90176310

1-800-879-8000 toll free - F +1 918 254 0522 anchor.hse@hilti.com

#### 1.4. Emergency telephone number

Emergency number Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

+1 918 8723000 1-800-879-8000 toll free

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Eye Irrit. 2A H319 - Causes serious eye irritation H317 - May cause an allergic skin reaction Skin Sens. 1 H360 - May damage fertility or the unborn child Repr. 1B

Full text of H-statements: see section 16

## 2.2. Label elements

#### **GHS-US labelling**

Hazard pictograms (GHS-US)





GHS07

GHS08

Signal word (GHS-US) Danger

H317 - May cause an allergic skin reaction Hazard statements (GHS-US)

H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

Precautionary statements (GHS-US) P280 - Wear eye protection, protective clothing, protective gloves

P262 - Do not get in eyes, on skin, or on clothing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

P302+P352 - If on skin: Wash with plenty of water

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#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Quartz	(CAS No) 14808-60-7	25 - 40	Carc. 1A, H350
2-Hydroxypropyl methacrylate	(CAS No) 27813-02-1	5 - 10	Eye Irrit. 2A, H319 Skin Sens. 1, H317
1,4-Butanediol dimethacrylate	(CAS No) 2082-81-7	5 - 10	Skin Sens. 1B, H317
1,1,1-Trimethylolpropane trimethacrylate	(CAS No) 3290-92-4	1 - 2.5	Not classified
1,1'-(p-tolylimino)dipropan-2-ol	(CAS No) 38668-48-3	1 - 2.5	Acute Tox. 2 (Oral), H300 Eye Irrit. 2A, H319 Aquatic Chronic 3, H412
boric acid	(CAS No) 10043-35-3	0.1 - 1	Repr. 1B, H360
4-tert-butylpyrocatechol	(CAS No) 98-29-3	0.1 - 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general

Remove/Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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

Symptoms/injuries after skin contact

May cause an allergic skin reaction.

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

No additional information available

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

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## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

No additional information available

#### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

No additional information available

#### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct sunlight.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts ar not relevant

for this product.

## 8.2. Exposure controls

Personal protective equipment Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.







## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste.

Colour Light grey

Odour characteristic

Odour threshold Not determined

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pH No data available
Melting point No data available
Freezing point No data available
Boiling point No data available

Flash point > 109 °C DIN EN ISO 1523

No data available Relative evaporation rate (butylacetate=1) Flammability (solid, gas) No data available Explosive limits No data available Product is not explosive. Explosive properties Oxidising properties No data available No data available Vapour pressure Relative density No data available Relative vapour density at 20 °C No data available 1.74 g/cm3 DIN 66137-2 Density Solubility No data available Log Pow No data available Auto-ignition temperature Not self-igniting Decomposition temperature No data available No data available Viscosity

No data available

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#### 9.2. Other information

Viscosity, kinematic

Viscosity, dynamic

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

No additional information available

## 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

No additional information available

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity Not classified

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2-Hydroxypropyl methacrylate (27813-02-1)		
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rabbit	>= 5000 mg/kg bodyweight (Rabbit; Experimental value)	
1,4-Butanediol dimethacrylate (2082-81-7)		
LD50 oral rat	10066 mg/kg	
LD50 dermal rat	> 3000 mg/kg	
ATE US (oral)	10066.000 mg/kg bodyweight	
1,1,1-Trimethylolpropane trimethacrylate (32)	90-92-4)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rat	> 3000 mg/kg	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
LD50 oral rat	25 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
ATE US (oral)	25.000 mg/kg bodyweight	
boric acid (10043-35-3)		
LD50 oral rat	2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >2600 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rabbit	> 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)	
ATE US (oral)	2660.000 mg/kg bodyweight	
4-tert-butylpyrocatechol (98-29-3)		
LD50 oral rat	815 mg/kg bodyweight (Rat; Lethal; ECHA)	
LD50 dermal rat	1331 mg/kg bodyweight (Rat;Lethal; ECHA)	
LD50 dermal rabbit	(Rabbit)	
ATE US (oral)	815.000 mg/kg bodyweight	
ATE US (dermal)	1331.000 mg/kg bodyweight	
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Causes serious eye irritation.	
Respiratory or skin sensitisation	May cause an allergic skin reaction.	
Germ cell mutagenicity	Not classified	
Ç ,	Based on available data, the classification criteria are not met	
Carcinogenicity	Not classified	
Overt (14909 60 7)		
<b>Quartz (14808-60-7)</b> IARC group	1 - Carcinogenic to humans	
TARC gloup	1 - Cardinogenic to numaris	
Reproductive toxicity	May damage fertility or the unborn child.  Based on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	Not classified	
Specific target organ toxicity (repeated exposure)	Not classified	
Aspiration hazard	Not classified	
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.	
Symptoms/injuries after skin contact	May cause an allergic skin reaction.	

## **SECTION 12: Ecological information**

## 12.1. Toxicity

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2-Hydroxypropyl methacrylate (27813-02-1)	
LC50 fish 1	493 mg/l (48 h; Leuciscus idus; GLP)
EC50 Daphnia 1	> 143 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
Threshold limit algae 2	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
1,4-Butanediol dimethacrylate (2082-81-7)	
LC50 fish 1	32.5 mg/l
LC50 other aquatic organisms 1	9.79 mg/l
NOEC (acute)	7.51 mg/l
NOEC (chronic)	20 mg/l
1,1,1-Trimethylolpropane trimethacrylate (3290	D-92-4)
LC50 fish 1	2 mg/l
ErC50 (algae)	3.88 mg/l
NOEC chronic fish	0.138 mg/l
NOEC chronic crustacea	0.177 mg/l
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LC50 fish 1	≈ 17 mg/l
LC50 other aquatic organisms 1	245 mg/l
EC50 Daphnia 1	28.8 mg/l
NOEC (acute)	57.8 mg/l
boric acid (10043-35-3)	
LC50 fish 1	447 mg/l
EC50 Daphnia 1	658 - 875 mg/l (48 h; Daphnia magna)
LC50 fish 2	79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)
EC50 Daphnia 2	19.7 mg/l (336 h; Daphnia magna)
TLM fish 1	1800 ppm (24 h; Gambusia affinis)
Threshold limit algae 1	5 mg/l (672 h; Elodea sp.)
Threshold limit algae 2	0.4 - 0.8,336 h; Chlorella sp.; Growth
4-tert-butylpyrocatechol (98-29-3)	
LC50 fish 1	0.12 mg/l (96 h, Danio rerio, Lethal, ECHA)
EC50 Daphnia 1	> µg/l
12.2. Persistence and degradability	
HIT-HY 150 MAX, A	
Persistence and degradability	Not established.
<u> </u>	
2-Hydroxypropyl methacrylate (27813-02-1)	Deadily his degreedable in water No (test) data as mobility of the substance available
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.
1,4-Butanediol dimethacrylate (2082-81-7)	04.0/
Biodegradation	84 %
boric acid (10043-35-3)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
4-tert-butylpyrocatechol (98-29-3)	
ThOD	2.4 g O₂/g substance

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## 12.3. Bioaccumulative potential

HIT-HY 150 MAX, A					
Not established.					
2-Hydroxypropyl methacrylate (27813-02-1)					
<= 100 (Pisces)					
3.2 (Pisces; QSAR)					
0.97 (OECD 102: Melting Point/Melting Range)					
Low potential for bioaccumulation (BCF < 500).					
3.1					
0-92-4)					
CF fish 2 366 l/kg					
3.53					
Log Kow 4.39					
≈					
2.1					
0 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)					
< 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight)					
-1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)					
Low potential for bioaccumulation (BCF < 500).					
2.94 (Estimated value)					
Low potential for bioaccumulation (Log Kow < 4).					

## 12.4. Mobility in soil

b	oric acid (10043-35-3)	
E	cology - soil	May be harmful to plant growth, blooming and fruit formation.

## 12.5. Other adverse effects

Effect on the global warming No known ecological damage caused by this product.

Other information Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

No additional information available

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID	
14.1. UN numbe	er				
Not regulated for tra	ansport				

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ADR	IMDG	IATA	ADN	RID						
14.2. UN proper shipping name										
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable						
14.3. Transport hazar	14.3. Transport hazard class(es)									
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable						
14.4. Packing group			·	·						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable						
14.5. Environmental I	nazards									
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No						
	No supplementary information available									

#### 14.6. Special precautions for user

- Overland transport
- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

Carriage prohibited (ADN) No
Not subject to ADN No

- Rail transport

Carriage prohibited (RID) No

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

## Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 2-Hydroxypropyl methacrylate (27813-02-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 1,4-Butanediol dimethacrylate (2082-81-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 4-tert-butylpyrocatechol (98-29-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

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## 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319 Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

#### **National regulations**

## Quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

#### 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

Revision date 04/09/2015
Other information None.

## Full text of H-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category	
	2	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category	
	3	
Carc. 1A	Carcinogenicity, Category 1A	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Sens. 1	Sensitisation — Skin, Category 1	
Skin Sens. 1B	Sensitisation — Skin, category 1B	
H300	Fatal if swallowed	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H350	May cause cancer	
H360	May damage fertility or the unborn child	
H411	Toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

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01/12/2015 EN (English) 20/21



# HIT-HY 150 MAX, A

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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#### MT. HOOD CHEMICAL CORPORATION (MT. HOOD SOLUTIONS)

14546 N. Lombard

N/A = NOT APPLICABLE Portland, Oregon 97203 NA = NOT AVAILABLE

**MATERIAL SAFETY DATA SHEET** PRODUCT NAME: ISOPROPANOL

Emergency Phone: 503-227-3505 Date Printed: 10/1/2010

PRODUCT NAME: ISOPROPANOL PREPARED BY: K. Woods DATE: December 31, 1998

FORMULA: CH<sub>3</sub>CHOHCH<sub>3</sub> (in water) CHEMICAL FAMILY: Alcohol

HAZARDOUS INGREDIENTS (CAS #): EXPOSURE LIMITS, ppm: ACGIH TLV OSHA-PEL

More than 85% Isopropyl Alcohol (67-63-0) 400 400

CARCINOGENIC INGREDIENTS: Contains no known or suspected carcinogens.

SARA Title III, Section 313 Reportable Ingredients: None. Isopropyl Alcohol is reportable only for manufacturers of Isopropyl alcohol.

PHYSICAL PROPERTIES:

Boiling Point: About 1770 F % Volatiles: 100%

Solubility in Water: 100% % Volatile Organic Content (VOC): 90% Specific Gravity - Liquid (H<sub>2</sub>O = 1): 0.82-0.85 Vapor Pressure: 33 mm Hg at 680F Odor and Appearance: Clear liquid; alcohol odor Vapor Density (Air = 1): 2.10

FIRE AND EXPLOSION DATA:

Flash Point: 650F, TCC Flammability Limits: Lower 2.5%, upper 12.0%

Extinguishing Media: CO<sub>2</sub> foam, dry chemical, water fog Special Firefighting Procedures: When large amounts are present, wear full protective equipment and self-contained breathing apparatus.

Unusual Hazards: Vapors from this product may concentrate in confined spaces.

**HEALTH EFFECTS:** 

Effects of overexposure: May cause eye irritation. Prolonged skin contact may cause irritation. Ingestion may cause nausea, vomiting, or diarrhea.

Overexposure to vapors may cause dizziness, headache, or nausea.

Chronic effects of overexposure: None known or expected.

Medical conditions that may be aggravated by exposure: None known.

Primary routes of entry: Ingestion, inhalation of vapors or mist, skin contact.

**EMERGENCY AND FIRST AID PROCEDURES:** 

Eye Contact: Flush thoroughly with plenty of water for at least 15 minutes. Get prompt medical attention.

Skin Contact: Flush thoroughly from skin with plenty of water. If skin irritation persists, see a physician.

Ingestion: DO NOT INDUCE VOMITING UNLESS INSTRUCTED BY A PHYSICIAN. Give plenty of water or milk and call a physician immediately.

Inhalation of mist or vapor: Move to fresh air. Give oxygen if breathing is difficult. Call a physician.

**REACTIVITY DATA:** 

Stability: Stable Hazardous Polymerization: Will not occur

Incompatibility: Acids, strong oxidizers, chlorine bleach, amines, ammonia, caustics

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide if burned

Conditions to Avoid: High heat, open flames, sparks

SPILL OR LEAKAGE PROCEDURES:

Steps to be taken if material is released or spilled: Ventilate area well. Extinguish all sources of ignition. Flush to sewer with plenty of water OR

mop up OR absorb on an absorbent, sweep-up absorbent material and place in a closed container. Waste disposal method: According to local, state, or federal ordinances.

SPECIAL PROTECTION INFORMATION:

Ventilation: Normal room ventilation adequate for normal use.

Respiration Protection: If TLV may be exceeded, NIOSH approved respirator with proper canister.

Eye Protection: Safety glasses recommended if spraying or splashing.

Protective Gloves: For prolonged contact or sensitive individuals, rubber or neoprene gloves recommended.

Other Protective Equipment: None

SPECIAL PRECAUTIONS:

Precautions to be taken in handling and storage:

Store in closed container in cool, dry area. Store away from open flame, sparks, heat..

Wash thoroughly after handling. Ground metal containers when transferring.

KEEP OUT OF REACH OF CHILDREN.

HAZARD RATING:

2 Health: 0 = Minimal3 = Serious Fire: 3 1 = Slight4 = Severe

Reactivity: 0 2 = Moderate

# **SAFETY DATA SHEET**



## ISOPROPYL ALCOHOL

## **Section 1. Identification**

GHS product identifier : ISOPROPYL ALCOHOL

**Product code** : 1610/CAN/EUR-GS, G1, G4, G, 5G, 54G

Other means of identification

: Not available.

Product type : Liquid.

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

Not applicable.

Supplier's details : Techspray

8125 Cobb Center Drive Kennesaw, GA 30152 Tel:678-819-1408 Toll free: 800-858-4043 Fax: 806-372-8750

**Emergency telephone** number (with hours of

operation)

: Chemtrec - 1-800-424-9300

CANUTEC (Canadian Transportation): (613) 996-6666

Emergency phone: (800) 858-4043

24/7

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

#### **GHS label elements**

Hazard pictograms





Signal word

: Danger

**Hazard statements** 

Highly flammable liquid and vapor.
 Causes serious eye irritation.
 May cause drowsiness or dizziness.

## **Precautionary statements**

**Prevention** 

: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

#### Response

: 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** 

: Store locked up. Store in a well-ventilated place. Keep cool.

ISOPROPYL ALCOHOL

## Section 2. Hazards identification

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise** 

: None known.

classified

# Section 3. Composition/information on ingredients

Substance/mixture Other means of

: Substance : Not available.

identification

**CAS** number/other identifiers

**CAS** number : 67-63-0

Ingredient name	%	CAS number
Isopropyl alcohol	99.6 - 100	67-63-0

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

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

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

## Section 4. First aid measures

## **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

## Potential acute health effects

**Eye contact** 

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact

May cause skin irritation.

Ingestion

Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

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## Section 4. First aid measures

## Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

> irritation redness dryness cracking

Ingestion : Adverse symptoms may include the following:

Irritating to mouth, throat and stomach.

nausea or vomiting

Ingestion Seek medical attention.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or

self-contained breathing apparatus. It may be dangerous to the person providing aid to

give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media

**Unsuitable extinguishing** 

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

## **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

## **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

## **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Conditions for safe storage, : including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

## Occupational exposure limits

None.

# Appropriate engineering controls

## : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

## **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

#### **Appearance**

Physical state : Liquid.

Color : Clear. Colorless.

Odor : Alcohol-like.

Odor threshold : Not available.

**pH** : 7

Melting point: Not available.Boiling point: 82°C (179.6°F)

Flash point : Closed cup: 11.7°C (53.1°F) [Tagliabue.]

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# Section 9. Physical and chemical properties

**Evaporation rate** : 1.7 (butyl acetate = 1)

Flammability (solid, gas) : Highly flammable in the presence of the following materials or conditions: open flames,

sparks and static discharge and heat.

Lower and upper explosive

Lower: 2% (flammable) limits Upper: 12%

Vapor pressure

Vapor density : 2.07 [Air = 1]

**Relative density** : 0.785

**Solubility** : Not available. Solubility in water : Not available. Partition coefficient: n-: Not available.

octanol/water

: Not available. **Auto-ignition temperature Decomposition temperature** : Not available. **Viscosity** : Not available. Flow time (ISO 2431) : Not available.

# Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** 

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **Section 11. Toxicological information**

## Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
1 - 1 - 1 - 7	LD50 Dermal LD50 Oral		12800 mg/kg 5000 mg/kg	-

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

#### **Sensitization**

ISOPROPYL ALCOHOL

# Section 11. Toxicological information

Not available.

## **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

## **Classification**

Product/ingredient name	OSHA	IARC	NTP
Isopropyl alcohol	-	3	-

## **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

## **Specific target organ toxicity (single exposure)**

Name		Route of exposure	Target organs
Isopropyl alcohol	Category 3	Not applicable.	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Not available.

## Information on the likely

routes of exposure

: Not available.

## Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact** 

: May cause skin irritation.

Ingestion

: Can cause central nervous system (CNS) depression. Irritating to mouth, throat and

stomach.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** 

: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation

: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact** 

: Adverse symptoms may include the following:

irritation redness dryness cracking

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# **Section 11. Toxicological information**

**Ingestion**: Adverse symptoms may include the following:

Irritating to mouth, throat and stomach.

nausea or vomiting

Ingestion Seek medical attention.

## Delayed and immediate effects and also chronic effects from short and long term exposure

## **Short term exposure**

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

## Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

Route	ATE value
Oral	5010 mg/kg

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
,	Acute LC50 1400000 to 1950000 μg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1400000 μg/l	Fish - Gambusia affinis	96 hours

## Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Isopropyl alcohol	0.05	-	low

## **Mobility in soil**

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

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## Section 13. Disposal considerations

## **Disposal methods**

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

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN1219	UN1219	UN1219	UN1219	UN1219	UN1219
UN proper shipping name	ISOPROPANOL	ISOPROPANOL	ISOPROPANOL	ISOPROPANOL	ISOPROPANOL	ISOPROPANOL
Transport hazard class(es)	3	3	3	3	3	3
Packing group	II	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).	-	Hazard identification number UN1219	-	-

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

Transport in bulk according: Not available. to Annex II of MARPOL and the IBC Code

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## **Section 15. Regulatory information**

**U.S. Federal regulations** 

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

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

**Clean Air Act Section 112** 

(b) Hazardous Air

: Not listed

Pollutants (HAPs)

Clean Air Act Section 602

: Not listed

**Class I Substances** 

**Clean Air Act Section 602** 

: Not listed

**Class II Substances** 

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Fire hazard

Immediate (acute) health hazard

## Composition/information on ingredients

Name		hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
Isopropyl alcohol	-	Yes.	No.	No.	Yes.	No.

## **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Isopropyl alcohol	67-63-0	-
Supplier notification	Isopropyl alcohol	67-63-0	-

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

#### State regulations

Massachusetts : The following components are listed: ISOPROPYL ALCOHOL

**New York** : None of the components are listed.

New Jersey : The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL

Pennsylvania : The following components are listed: 2-PROPANOL

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

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# Section 15. Regulatory information

Not listed

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **International lists**

**National inventory** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

Malaysia: All components are listed or exempted.New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.Turkey: All components are listed or exempted.

## Section 16. Other information

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



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

#### **History**

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ISOPROPYL ALCOHOL

## Section 16. Other information

Date of issue/Date of

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**Version** 

: 5

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

References

: Not available.

Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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2221 Ninth Line | Oakville, ON L6H 7G7 Phone: 905-337-7411 | Fax: 905-337-1686

megaloid.ca

# Safety Data Sheet

## PRODUCT IDENTIFICATION

Isopropyl Alcohol Name

2-propanol, isopropanol, 2-hydroxypropane, sec-propyl alcohol, IPA **Synonyms** 

67-63-0 CAS# Europe EC# 200-661-7

**Product Uses** solvent, disinfectant, organic synthesis, pharmaceuticals

EMERGENCY INFORMATION

Canada Call CANUTEC (collect) (613) 996-6666 Call CHEMTREC U.S.A. (800) 424-9300

## **HAZARDS**

**GHS Class** flammable STOT eye irritant (Category) (2) (2A)(3) Signal Words **DANGER** WARNING WARNING

**Hazard Statements** highly flammable causes serious mau cause drowsiness

> of dizzyness liquid & vapour eve irritation (Ĥ225) (H319)(H336)

Canada – WHMIS B 2, D 2B

 $\mathbf{B} \ \mathbf{2}$  - Flash Point  $< 38^{\circ} C$ ,  $\mathbf{B} \ \mathbf{3}$  - Flash Point  $> 38^{\circ} C \ & < 93^{\circ} C$ Key:

C – Oxidising Substance, E – Corrosive, F – Reactive Substance

**D** 1 – Immediately Toxic, **D** 2 – Chronic Toxicity

TWAEV / TLV % LD<sub>50</sub> (mg/kg) LD<sub>50</sub> (mg/kg) COMPOSITION ppm / mg/m<sup>3</sup> ORAL SKIN 2-propanol 100% 200 / 490 >4400 12,900

**FIRST AID** 

SKIN: Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered. EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is

irritation

INHALATION: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing

stops, administer artificial respiration and seek medical aid promptly.

INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting

occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.





 $LC_{50}\ ppm$ 

INHALATION

>5920



Product Name: Isopropyl Alcohol

### 5. FIRE FIGHTING & FLAMMABILITY

Flash Point 12°C / 53°F (closed cup)

Autoignition Temperature  $399^{\circ}\text{C} / 750^{\circ}\text{F}$ Flammable Limits 2.0% - 12%

Combustion Products carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments foam, dry chemical, water fog or spray to cool & dilute; firefighters must wear SCBA

Static Discharge cannot accumulate a static charge

#### 6. ACCIDENTAL RELEASE MEASURES

Serious Fire Potential: blanket spill with foam as a precaution against accidental ignition. Take extreme care to avoid sparks – do not operate (turn on <u>OR</u> off) electrical appliances near spill, unless explosion proof.

Leak Precaution dyke to control spillage and prevent environmental contamination

Handling Spill ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep & pick up using plastic or aluminium shovel, & store in closed containers for recycling or disposal

### 7. HANDLING & STORAGE

Store and use in a cool dry environment, away from sources of ignition, heat and oxidising agents. Take great care to avoid sparks – use non-sparking bronze or aluminum hand tools. All electrical and mechanical equipment (lighting, switchgear, forklift trucks, etc) used with or around this product must be explosion-proof.

Although this product does not accumulate a static charge on agitation or transfer, in view of the low flash point it is prudent to ground containers, mixers, and transfer equipment before handling to prevent static discharge. On transfer, ensure that the delivery nozzle is below the surface in the receiving container to prevent splash.

Empty containers may contain a flammable/explosive vapour. Never cut, drill, weld or grind on or near this container, whether empty or full. *Always replace drum, pail or IBC cap prior to moving the container!* 

Avoid breathing product vapour. Use with adequate ventilation to maintain airborne concentration of the product below the TLV (see IX above). If dealing with a spill, and ventilation is impractical, wear a respirator with organic vapour cartridge. *If the spill is extensive, use an air-supplied respirator*. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

Ontario TWAEV 200ppm / 490mg/m³; Ontario STEV 400ppm / 980mg/m³ ACGIH TLV 200ppm / 491mg/m³ ACGIH STEL 400ppm / 983mg/m³ OSHA PEL 400ppm / 980mg/m³ OSHA STEL 500ppm / 1225mg/m³

Ventilation mechanical ventilation may be required to maintain airborne vapour or mist concentrations below TLV; a

respirator with organic vapour cartridge should be available for escape purposes, should ventilation fail

(always store respirator in an airtight container [eg: "Tupperware"] to maintain cartridge "freshness")

Hands butyl, neoprene or nitrile gloves – always confirm suitability with supplier

Eyes safety glasses with side shields – *always protect eyes* 

Clothing no special protective clothing required

#### 9. PHYSICAL PROPERTIES

Odour & Appearance clear, colourless, mobile liquid with strong odour of rubbing alcohol

Odour Threshold ~40ppm – varies widely

Vapour Pressure 33mmHg / 4.4kPa (20°C/68°F)

Vapour Density (air = 1) 2.1 Evaporation Rate (Butyl Acetate=1) 1.5

Boiling Point  $82^{\circ}\text{C} / 180^{\circ}\text{F}$ Freezing Point  $-88.5^{\circ}\text{C} / -127^{\circ}\text{F}$ 

Product Name: Isopropyl Alcohol

## 9. PHYSICAL PROPERTIES, cont'd

Specific Gravity 0.786 (20/20°C) Water Solubility complete

- in other solvents most organic solvents Log  $P_{O/W}$  (Octanol/H<sub>2</sub>O partition) 0.05 (measured)

Viscosity 2.4centipoise (20°C / 68°F)

pH none – does not yield hydrogen ions in solution

Molecular Weight 60 grams/mole Conversion Factor  $1ppm = 4.9mg/m^3$ 

### 10. REACTIVITY

Dangerously Reactive With strong oxidising agents; strong acids; acid anhydrides; alkali metals or alkaline earth metals

Also Reactive With ethylene oxide, phosgene, crotonaldehyde or isocyanates

Chemical Stability stable; will not polymerize

Decomposes in Presence of together oxygen (air) & light slowly convert isopropanol into potentially explosive peroxides

Decomposition Products none apart from Hazardous Combustion Products

Mechanical Impact not sensitive

## 11. TOXICITY

Effects, Acute Exposure

Skin Contact slightly irritating

Skin Absorption slight; toxic effects unlikely by this route

Eye Contact liquid irritating; vapour irritating above 400ppm; 800ppm considered highly unpleasant Inhalation 400ppm mildly irritating; 800ppm very unpleasant; headache, dizziness, drowsiness,

intoxication and lack of co-ordination

Ingestion headache, dizziness, drowsiness, intoxication and lack of co-ordination

Effects, Chronic Exposure

General prolonged or repeated exposure may cause dermatitis through removal of protective skin oils

Sensitising not a sensitiser

Carcinogen/Tumorigen not known to be a tumorigen or a carcinogen in humans or animals

Reproductive Effect no known effect on humans; fetotoxic in animals at doses also causing maternal toxicity and not

relevant to industrial exposure

Mutagen not known to be a mutagen or teratogen in humans or animals

Synergistic With not known

LD<sub>50</sub> (oral) 4400-5500mg/kg (rat), 4475mg/kg (mouse), 4710mg/kg (cat), 5030 & 7990mg/kg (rabbit),

4830mg/kg (dog)

LD<sub>50</sub> (skin) 12,900mg/kg (rabbit)

LC<sub>50</sub> (inhalation) 10,800ppm (mouse), 5920, 10,420, 14,800, 16,000 & 17,000ppm (rat)

## 12. <u>ECOLOGICAL INFORMATION</u>

Bioaccumulation low potential for bioaccumulation

Biodegradation biodegrades readily & rapidly: aerobic - >75% in 28days; anaerobic - >65% in 20days Abiotic Degradation reacts with atmospheric hydroxyl (OH) radicals; estimated  $\frac{1}{2}$ -life in air 3.2 days

Mobility in soil, water water soluble; moves readily through soil and the water column

**Marine Toxicity** 

LC<sub>50</sub> (Fish, 96) 9640, 10,400 & 11,130mg/litre (Pimephelas promelas), 4200mg/litre (Rasbora heteromorpha)

LC<sub>50</sub> (Crustacea, 48) 1100 & 1400mg/l (Crangon crangon), 13,300mg/litre (Daphnia magna)

EC<sub>50</sub> (Algae, 96hr) 1000mg/l (Scenedesmus subspicatus)

LC<sub>50</sub> (Microorganisms) 1050 & 5175mg/l (Pseudomonas putida), 41,676mg/litre ("activated sludge, domestic sewage")

39,540 & 112,000mg/litre ("activated sludge, industrial sewage"), 35,000 & 42,000mg/litre (Photobacterium phosphoreum) & others

## 13. DISPOSAL

Waste Disposal Containers do not flush to sewer, recycle solvent if possible, may be incinerated in approved facility

**Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.

**Pails** must be vented and thoroughly dried prior to crushing and recycling.

**IBCs** (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs). Steel containers must be inspected, pressure tested & recertified every 5 years.

Never cut, drill, weld or grind on or near this container, even if empty

### 14. TRANSPORT CLASSIFICATION

Canada TDG PIN UN - 1219

AND Shipping Name isopropyl alcohol OR isopropanol

U.S.A. 49 CFR Class & Packing Group 3 I

Marine Pollutant not a marine pollutant

ERAP Required NO

## 15. REGULATIONS

Canada DSL on inventory
U.S.A. TSCA on inventory
Europe EINECS on inventory

#### U.S.A. Regulations:

Immediately Dangerous to Life or Health: 2000 ppm (Based on 10% of the lower explosive limit for safety considerations even though the relevant toxicological data indicated that irreversible health effects or impairment of escape existed only at higher concentrations.)

Allowable Tolerances: Unless specifically excluded, residues resulting from the use of the following substances as either an inert or an active ingredient in a pesticide chemical formulation, including antimicrobial pesticide chemicals, are exempted from the requirement of a tolerance under FFDCA section 408, if such use is in accordance with good agricultural or manufacturing practices. 2-Propanol is included on this list.

OSHA Standards: Permissible Exposure Limit: Table Z-1 8-hr Time Weighted Avg: 400ppm (980mg/m³). Vacated 1989 OSHA PEL TWA 400ppm (980mg/m³); STEL 500ppm (1225mg/m³) is still enforced in

NIOSH Recommendations: Recommended Exposure Limit: 10 Hour Time-Weighted Average: 400ppm (980mg/m³). Recommended Exposure Limit: 15 Minute Short-Term Exposure Limit: 500ppm (1225mg/m³).

Threshold Limit Values: 8 hr Time Weighted Avg (TWA): 200 ppm; 15 min Short Term Exposure Limit (STEL): 400 ppm A4; Not classifiable as a human carcinogen. Biological Exposure Index (BEI): Determinant: acetone in urine; Sampling Time: end of shift at end of workweek; BEI: 40 mg/L. The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect interpretation of the result. Such background concentrations are incorporated in the BEI value. The determinant is nonspecific, since it is also observed after exposure to other chemicals

Atmospheric Standards: This action promulgates standards of performance for equipment leaks of Volatile Organic Compounds (VOC) in the Synthetic Organic Chemical Manufacturing Industry (SOCMI). The intended effect of these standards is to require all newly constructed, modified, and reconstructed SOCMI process units to use the best demonstrated system of continuous emission reduction for equipment leaks of VOC, considering costs, non air quality health and environmental impact and energy requirements. Isopropanol is produced, as an intermediate or a final product, by process units covered under this subpart.

State Drinking Water Guidelines: Connecticut 2300 ug/l

TSCA Requirements: Pursuant to section 8(d) of TSCA, EPA promulgated a model Health and Safety Data Reporting Rule. The section 8(d) model rule requires manufacturers, importers, and processors of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and safety studies. 2-Propanol is included on this list. Effective date: 12/15/86; Sunset date: 12/15/96.

FIFRA Requirements: Unless specifically excluded, residues resulting from the use of the following substances as either an inert or an active ingredient in a pesticide chemical formulation, including antimicrobial pesticide chemicals, are exempted from the requirement of a tolerance under FFDCA section 408, if such use is in accordance with good agricultural or manufacturing practices. 2-Propanol is included on this list. Based on the reviews of the generic data for the active ingredients ethanol and isopropanol, the Agency has sufficient information on the health effects and on their potential for causing adverse effects in fish and wildlife and the environment. The Agency has determined that ethanol and isopropanol products, labeled and used as specified in this Reregistration Eligibility Decision, will not pose unreasonable risks or adverse effects to humans or the environment. Therefore, the Agency concludes that products containing ethanol and isopropanol for all uses are eligible for reregistration. As the federal pesticide law FIFRA directs, EPA is conducting a comprehensive review of older pesticides to consider their health and environmental effects and make decisions about their continued use. Under this pesticide reregistration program, EPA examines newer health and safety data for pesticide active ingredients initially registered before November 1, 1984, and determines whether the use of the pesticide does not pose unreasonable risk in accordance to newer saftey standards, such as those described in the Food Quality Protection Act of 1996. Pesticides for which EPA had not issued Registration Standards prior to the effective date of FIFRA '88 were divided into three lists based upon their potential for human exposure and other factors, with List B containing pesticides of greater concern than those on List C, and with List C containing pesticides of greater concern than those on List D. Lose No: 4003; Pesticide type: insecticide, fungicide, herbicide, antimicrobial; Case Status: RED Approved 3/95; OP

FDA Requirements: Isopropyl alcohol (without residue) may be used in inks for marking food supplements in tablet form, gum, and confectionery. Diluents in color additive mixtures for drug use exempt from certification. Ingested drugs (general use) - Substance: isopropyl alcohol; Restrictions: In color coatings for pharmaceutical forms, no residue. Isopropanol is a food additive permitted for direct addition to food for human consumption as a synthetic flavoring substance and adjuvant in accordance with the following conditions: a) they are used in the minimum quantity required to produce their intended effect, and otherwise in accordance with all the principles of good manufacturing practice, and b) they consist of one or more of the following, used alone or in combination with flavoring substances and adjuvants generally recognized as safe in food, prior-sanctioned for such use, or regulated by an appropriate section in this part. Isopropyl alcohol may be present in the following foods under the conditions specified: (a) In spice oleoresins as a residue from the extraction of spice, at a level not to exceed 50 parts per million. (b) In lemon oil as a residue in production of the oil, at a level not to exceed 40 parts per million. (c) In hops extract as a residue from the extraction of hops at a level not to exceed 2.0 percent by weight: Provided, that, (1) The hops extract is added to the wort before or during cooking in the manufacture of beer. (2) The label of the hops extract specifies the presence of the isopropyl alcohol & provides for the use of the hops extract only as prescribed by paragraph (c)(1) of this section. Isopropanol is an indirect food additive for use only as a component of adhesives.

#### 16. OTHER INFORMATION

Prepared for Megaloid Laboratories by Peter Bursztyn, (705) 734-1577

Data from RTECS, HSDB (Haz. Substance Data Base), Cheminfo (CCOHS), IUCLID Datasheets (ESIS – European Chem. Substance Info. System), & others.

Preparation Date: July 2006 Revision Date: July 2009, June 2012, November 2013

## SAFETY DATA SHEET



#### 1. Identification

**Product identifier** Isopropyl Alcohol 99%

Other means of identification

**CAS** number 67-63-0

**Synonyms** IPA, Isopropyl Alcohol, Isopropanol.

Recommended use General purpose solvent.

**Recommended restrictions** Use in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Greenfield Global USA Inc. **Company Name Address** 1101 Isaac Shelby Drive

Shelbyville, KY 40065

**USA** 

502.232.7600 Telephone 502.633.6100 **Fax** 

**Company Name** Greenfield Global USA Inc.

58 Vale Road **Address** 

Brookfield, CT 06804

**USA** 

203.740.3471 **Telephone** 203.740.3481 Fax

**Emergency phone number** 

USA CHEMTREC: 1.800.424.9300 (CCN 17213) International CHEMTREC: +1.703.527.3887 (CCN 17213)

2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 2 **Health hazards** Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 narcotic effects

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or

dizziness.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapors/spray. Wash thoroughly after

handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye

protection/face protection.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Response

> If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor 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 eye irritation persists: Get

medical advice/attention. In case of fire: Use appropriate media to extinguish.

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

## 3. Composition/information on ingredients

#### **Substances**

Chemical name	Common name and synonyms	CAS number	%
Isopropyl alcohol		67-63-0	100

**Composition comments** 

All concentrations are in percent by weight unless otherwise indicated.

#### 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.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical Skin contact

attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.

Use standard firefighting procedures and consider the hazards of other involved materials. Highly flammable liquid and vapor.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors/spray. 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.

Isopropyl Alcohol 99% **SDS US 113** 2/8

#### 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. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Avoid discharge into drains, water courses or onto the ground.

### **Environmental precautions**

### 7. Handling and storage

## Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

#### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

Material	Туре	Value	
Isopropyl alcohol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Valu	ies		
Material	Туре	Value	
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Material	Туре	Value	
Isopropyl alcohol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	

#### **Biological limit values**

ACGIH Biological Exposure Indices				
Material	Value	Determinant	Specimen	Sampling Time
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

#### 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

Chemical goggles are recommended. Eye/face protection

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Skin protection

Nitrile, butyl rubber or neoprene gloves are recommended. Other suitable gloves can be Hand protection

recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent

change is advisable.

Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator with

organic vapor cartridge.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

## clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** 

Liquid. Physical state Liquid. **Form** Color Colorless. Odor Alcohol-like. **Odor threshold** Not available. Not available. pН

Melting point/freezing point -129.1 °F (-89.5 °C) 181.4 °F (83 °C) Initial boiling point and boiling

range

53.6 °F (12.0 °C) Closed Cup Flash point

**Evaporation rate** 3

Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits 2 % v/v Flammability limit - lower

(%)

Flammability limit - upper

12.7 % v/v

(%)

Vapor pressure 43.2 hPa (68 °F (20 °C))

2.1 Vapor density

Relative density 0.785 g/cm3 (77 °F (25 °C))

Solubility(ies)

Solubility (water) completely soluble

Partition coefficient 0.05

(n-octanol/water)

**Auto-ignition temperature** 750.2 °F (399 °C) Not available. **Decomposition temperature** Not available. Viscosity

Other information

**Explosive properties** Not explosive. Heat of combustion (NFPA 27.4 kJ/g

30B)

C3-H8-O Molecular formula Molecular weight 60.1 g/mol Not oxidizing. Oxidizing properties

#### 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. Hygroscopic

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Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Avoid direct light. Contact with incompatible materials.

Chlorine. Isocyanates. Strong oxidizing agents. Acid anhydrides. Aluminum. Halogenated Incompatible materials

compounds. Acids.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact Causes serious eye irritation. May be harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

#### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
Isopropyl alcohol (CAS 6	7-63-0)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	12870 mg/kg
Inhalation		
Vapor		
LC50	Rat	72.6 mg/l, 4 Hours
Oral		
LD50	Rat	4710 mg/kg

Skin corrosion/irritation Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye

irritation

Causes serious eve irritation.

#### Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### NTP Report on Carcinogens

Not listed.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

Isopropyl Alcohol 99% **SDS US 116** 5/8

#### 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.

Product		Species	Test Results		
Isopropyl alcohol (CAS	S 67-63-0)				
Aquatic					
Acute					
Crustacea	LC50	Daphnia magna	> 10000 mg/l, 24 hours		
Fish	LC50	Pimephales promelas	9640 mg/l, 96 hours		
Chronic					
Crustacea	EC50	Daphnia magna	> 100 mg/l, 21 days		
	NOEC	Daphnia magna	141 mg/l, 16 days		
			30 mg/l, 21 days		

Persistence and degradability

No data is available on the degradability of this substance.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

0.05

Mobility in soil Expected to be mobile in soil.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

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

material under controlled conditions in an approved incinerator. Do not incinerate sealed

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

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN1219 **UN number** Isopropanol

UN proper shipping name

Transport hazard class(es)

3 Class Subsidiary risk 3 Label(s) Ш Packing group

**Environmental hazards** 

Marine pollutant No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** IB2, T4, TP1 4b, 150 Packaging exceptions Packaging non bulk 202 Packaging bulk 242

**IATA** 

UN1219 **UN** number **UN** proper shipping name Isopropanol

Transport hazard class(es) Class 3

Isopropyl Alcohol 99%

944110 Version #: 01 6/8 Revision date: -Issue date: 11-June-2018

**SDS US 117** 

Subsidiary risk Packing group П **Environmental hazards** No **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** UN1219 **UN** proper shipping name **ISOPROPANOL** 

Transport hazard class(es) Class 3 Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant No **EmS** F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Isopropyl alcohol (CAS 67-63-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

**Classified hazard** Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation categories

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

**Chemical name CAS** number % by wt. Isopropyl alcohol 67-63-0 100

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)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Isopropyl alcohol (CAS 67-63-0) Low priority

**US** state regulations

**US. Massachusetts RTK - Substance List** 

Isopropyl alcohol (CAS 67-63-0)

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

Isopropyl alcohol (CAS 67-63-0)

Isopropyl Alcohol 99% **SDS US 118** 

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

Isopropyl alcohol (CAS 67-63-0)

#### **US. Rhode Island RTK**

Isopropyl alcohol (CAS 67-63-0)

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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

Isopropyl alcohol (CAS 67-63-0)

#### International Inventories

Country(s) or region

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)	Yes
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

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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

Inventory name

Issue date 11-June-2018

**Revision date** Version # 01

**HMIS®** ratings Health: 2

Flammability: 3 Physical hazard: 0

This product is subject to Greenfield Global USA Inc.'s terms and conditions, which can be found Disclaimer

at http://www.greenfield.com/tc-po-us/. Greenfield cannot anticipate all conditions under which this information and this product, or the products of other manufacturers in combination with this product, may be used. The user is responsible for the proper and safe use, handling, storage and disposal of the product, and assumes liability for any loss, injury, damage or expense arising from any failure to do so. The data in this sheet is based on information and experience available at the

time of writing.

Isopropyl Alcohol 99% SDS US 119

On inventory (yes/no)\*

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).



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

### 1 Identification

- · Product identifier
- · Trade name: Kool Mist Formula 77
- · Relevant identified uses of the substance or mixture and uses advised against:
- · **Product description** Heavy duty coolant for spray mist systems.
- · Details of the supplier of the safety data sheet:
- · Manufacturer/Supplier:

**Kool Mist** 

9218 Norwalk Blvd.

Santa Fe Springs, CA 90670

Ph: (562) 246-0949

· Emergency telephone number: Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

### 2 Hazard(s) identification

· Classification of the substance or mixture:



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements:
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

- · Signal word: Warning
- · Hazard-determining components of labeling:

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether

· Hazard statements:

Harmful if swallowed.

Causes skin and eye irritation.

· Precautionary statements:

Wear protective gloves.

Wash thoroughly after handling.

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 swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

(Contd. on page 2)



OSHA HazCom Standard 29 CFR 1910.1200(a) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1 Fire = 0

Hazard(s) not otherwise classified (HNOC): None known

## Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

	· Dangerous Components:		
	102-71-6	Triethanolamine, TEA	20-40%
		♦ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
ľ	9038-95-3	Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	1-5%
		♦ Acute Tox. 2, H300	

#### · Additional information:

Concentration of Dangerous Components when diluted:

Triethanolamine, TEA: <1%

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether: <0.1

#### l First-aid measures

- · Description of first aid measures:
- · General information:

Symptoms of poisoning may occur after several hours; therefore medical observation is advised for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media:
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture: No further relevant information available.

(Contd. on page 3)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

- · Advice for firefighters:
- · Protective equipment:

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

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling
- · Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

#### 102-71-6 Triethanolamine, TEA

TLV Long-term value: 5 mg/m³

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment: Not required.

(Contd. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

#### · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

#### · Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Green
Odor: Vinegar

· Odor threshold: Not determined.

· **pH-value:** Acidic

· Change in condition

Melting point/Melting range:<br/>Boiling point/Boiling range:Not determined.<br/>100 °C (212 °F)Flash point:180 °C (356 °F)Flammability (solid, gaseous):Not applicable.Ignition temperature:305 °C (581 °F)Decomposition temperature:Not determined.

· **Auto igniting:** Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

**Lower:** 0.0 Vol % **Upper:** 0.0 Vol %

· Vapor pressure @ 20 °C (68 °F): 23 hPa (17 mm Hg)

(Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

· Density:

Relative density:

Vapor density:

Not determined.

Not determined.

Evaporation rate:

Not determined.

· Solubility in / Miscibility with:

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Solvent content:

 Organic solvents:
 20.0 %

 Water:
 20.0 %

 VOC content:
 0 %

· Other information: No further relevant information available.

### 10 Stability and reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC5	· LD/LC50 values that are relevant for classification:		
102-71-	6 Triethand	plamine, TEA	
Oral	LD50	5530 mg/kg (rat)	
		2200 mg/kg (rabbit)	
	LD50 Oral	2200 ml/kg (Guinea Pig)	
		5846 ml/kg (mouse)	
Dermal	LD50	>22500 mg/kg (rabbit)	
9038-95	9038-95-3 Poly(ethylene glycol-ran-propylene glycol) monobutyl ether		
Oral	LD50	12.792 mg/kg (rat)	
Dermal	LD50	>20.800 mg/kg (rabbit)	
	Polos and todds of a file of		

- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- On the eye:

Irritating effect.

Causes serious eye irritation.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

(Contd. on page 6)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

Harmful Irritant

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):	
102-71-6 Triethanolamine, TEA	3
· NTP (National Toxicology Program):	
None of the ingredients are listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	

### 12 Ecological information

- · Toxicity:
- · Aquatic toxicity:

#### 102-71-6 Triethanolamine, TEA

EC50 609.98 mg/l (daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · **Mobility in soil:** No further relevant information available.
- Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment:
- · **PBT**: Not applicable.
- vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods:
- · **Recommendation:** Recycle or dispose with household trash.
- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

· UN-Number:

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name:

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es):

· DOT, ADR, ADN, IMDG, IATA

· Class: Non-Regulated Material

· Packing group:

· DOT, ADR, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.Special precautions for user: Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

(Contd. on page 7)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

· UN "Model Regulation": Non-Regulated Material

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

- Signal word: Warning
- Hazard-determining components of labeling:

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether

· Hazard statements:

Harmful if swallowed.

Causes skin and eye irritation.

Precautionary statements:

Wear protective gloves.

Wash thoroughly after handling.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

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 swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

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

### · National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· State Right to Know:		
102-71-6 Triethanolamine, TEA	20-40%	
♦ Skin Irrit. 2, H315; Eye Irrit. 2B, H320		
9038-95-3 Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	1-5%	
Acute Tox. 2, H300		
All ingredients are listed.		

<sup>·</sup> Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

#### · Date of preparation / last revision: 08/03/2015 / 4

#### · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

#### \* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

### 1 Identification

- · Product identifier
- · Trade name: Kool Mist Formula 77
- Relevant identified uses of the substance or mixture and uses advised against:
- · **Product description** Heavy duty coolant for spray mist systems.
- · Details of the supplier of the safety data sheet:
- · Manufacturer/Supplier:

**Kool Mist** 

9218 Norwalk Blvd.

Santa Fe Springs, CA 90670

Ph: (562) 246-0949

· Emergency telephone number: Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

### 2 Hazard(s) identification

· Classification of the substance or mixture:



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements:
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

- · Signal word: Warning
- · Hazard-determining components of labeling:

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether

· Hazard statements:

Harmful if swallowed.

Causes skin and eye irritation.

· Precautionary statements:

Wear protective gloves.

Wash thoroughly after handling.

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 swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

(Contd. on page 2)



OSHA HazCom Standard 29 CFR 1910.1200(a) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1 Fire = 0

Hazard(s) not otherwise classified (HNOC): None known

## Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

	· Dangerous Components:		
	102-71-6	Triethanolamine, TEA	20-40%
		♦ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
ľ	9038-95-3	Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	1-5%
		♦ Acute Tox. 2, H300	

#### · Additional information:

Concentration of Dangerous Components when diluted:

Triethanolamine, TEA: <1%

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether: <0.1

### ! First-aid measures

- · Description of first aid measures:
- · General information:

Symptoms of poisoning may occur after several hours; therefore medical observation is advised for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media:
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture: No further relevant information available.

(Contd. on page 3)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

- · Advice for firefighters:
- · Protective equipment:

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

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling
- · Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

#### 102-71-6 Triethanolamine, TEA

TLV Long-term value: 5 mg/m³

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment: Not required.

(Contd. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

### · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

#### Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Green
Odor: Vinegar

· Odor threshold: Not determined.

· pH-value: Acidic

· Change in condition

Melting point/Melting range:<br/>Boiling point/Boiling range:Not determined.<br/>100 °C (212 °F)Flash point:180 °C (356 °F)Flammability (solid, gaseous):Not applicable.Ignition temperature:305 °C (581 °F)Decomposition temperature:Not determined.

· **Auto igniting:** Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

**Lower:** 0.0 Vol % **Upper:** 0.0 Vol %

· Vapor pressure @ 20 °C (68 °F): 23 hPa (17 mm Hg)

(Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

· Density:

Relative density:

Vapor density:

Not determined.

Not determined.

Evaporation rate:

Not determined.

· Solubility in / Miscibility with:

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Solvent content:

 Organic solvents:
 20.0 %

 Water:
 20.0 %

 VOC content:
 0 %

· Other information: No further relevant information available.

#### 10 Stability and reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC5	· LD/LC50 values that are relevant for classification:		
102-71-	6 Triethand	plamine, TEA	
Oral	LD50	5530 mg/kg (rat)	
		2200 mg/kg (rabbit)	
	LD50 Oral	2200 ml/kg (Guinea Pig)	
		5846 ml/kg (mouse)	
Dermal	LD50	>22500 mg/kg (rabbit)	
9038-95	9038-95-3 Poly(ethylene glycol-ran-propylene glycol) monobutyl ether		
Oral	LD50	12.792 mg/kg (rat)	
Dermal	LD50	>20.800 mg/kg (rabbit)	
	Polos and todds of a file of		

- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eye:

Irritating effect.

Causes serious eye irritation.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

(Contd. on page 6)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

Harmful Irritant

· Carcinogenic categories:

IARC (International Agency for Research on Cancer):	
102-71-6 Triethanolamine, TEA	3
· NTP (National Toxicology Program):	
None of the ingredients are listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	

### 12 Ecological information

- · Toxicity:
- · Aquatic toxicity:

### 102-71-6 Triethanolamine, TEA

EC50 609.98 mg/l (daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment:
- · **PBT**: Not applicable.
- vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods:
- · **Recommendation:** Recycle or dispose with household trash.
- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

· UN-Number:

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name:

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es):

· DOT, ADR, ADN, IMDG, IATA

· Class: Non-Regulated Material

· Packing group:

· DOT, ADR, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.Special precautions for user: Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

(Contd. on page 7)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

· UN "Model Regulation": Non-Regulated Material

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

- Signal word: Warning
- · Hazard-determining components of labeling:

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether

· Hazard statements:

Harmful if swallowed.

Causes skin and eye irritation.

· Precautionary statements:

Wear protective gloves.

Wash thoroughly after handling.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

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 swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

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

### · National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

	substances.		
· State Right to Know:			
		0-40%	
	♦ Skin Irrit. 2, H315; Eye Irrit. 2B, H320		
		1-5%	
	Acute Tox. 2, H300		
All ingredients are listed.			

<sup>·</sup> Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

#### · Date of preparation / last revision: 08/03/2015 / 4

#### Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

#### \* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

## 1 Identification

- · Product identifier
- · Trade name: Kool Mist Formula 77
- Relevant identified uses of the substance or mixture and uses advised against:
- · **Product description** Heavy duty coolant for spray mist systems.
- · Details of the supplier of the safety data sheet:
- · Manufacturer/Supplier:

**Kool Mist** 

9218 Norwalk Blvd.

Santa Fe Springs, CA 90670

Ph: (562) 246-0949

· Emergency telephone number: Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

### 2 Hazard(s) identification

· Classification of the substance or mixture:



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements:
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

- · Signal word: Warning
- · Hazard-determining components of labeling:

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether

· Hazard statements:

Harmful if swallowed.

Causes skin and eye irritation.

Precautionary statements:

Wear protective gloves.

Wash thoroughly after handling.

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 swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

(Contd. on page 2)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

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

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 1 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 1
FIRE 0
REACTIVITY 0

1 Health = 1 0 Fire = 0

REACTIVITY | Reactivity = 0

· Hazard(s) not otherwise classified (HNOC): None known

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous Components:		
102-71-6	Triethanolamine, TEA	20-40%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
9038-95-3	Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	1-5%
	♦ Acute Tox. 2, H300	

#### · Additional information:

Concentration of Dangerous Components when diluted:

Triethanolamine, TEA: <1%

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether: <0.1

### 4 First-aid measures

- · Description of first aid measures:
- · General information:

Symptoms of poisoning may occur after several hours; therefore medical observation is advised for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media:
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture: No further relevant information available.

(Contd. on page 3)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

- · Advice for firefighters:
- · Protective equipment:

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

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling
- · Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

#### 102-71-6 Triethanolamine, TEA

TLV Long-term value: 5 mg/m³

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment: Not required.

(Contd. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

#### · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

#### · Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Green
Odor: Vinegar

· Odor threshold: Not determined.

· pH-value: Acidic

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Flash point:
Flammability (solid, gaseous):
Ignition temperature:
Decomposition temperature:
Not determined.
Not applicable.
305 °C (581 °F)
Not determined.

· **Auto igniting:** Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

**Lower:** 0.0 Vol % **Upper:** 0.0 Vol %

· Vapor pressure @ 20 °C (68 °F): 23 hPa (17 mm Hg)

(Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

· Density:

Relative density:

Vapor density:

Not determined.

Not determined.

Evaporation rate:

Not determined.

· Solubility in / Miscibility with:

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Solvent content:

 Organic solvents:
 20.0 %

 Water:
 20.0 %

 VOC content:
 0 %

· Other information: No further relevant information available.

#### 10 Stability and reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC5	· LD/LC50 values that are relevant for classification:			
102-71-	102-71-6 Triethanolamine, TEA			
Oral	LD50	5530 mg/kg (rat)		
		2200 mg/kg (rabbit)		
	LD50 Oral	2200 ml/kg (Guinea Pig)		
		5846 ml/kg (mouse)		
Dermal	LD50	>22500 mg/kg (rabbit)		
9038-95	9038-95-3 Poly(ethylene glycol-ran-propylene glycol) monobutyl ether			
Oral	LD50	12.792 mg/kg (rat)		
Dermal	LD50	>20.800 mg/kg (rabbit)		
D.:	Duissame invitant affacts			

- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- On the eye:

Irritating effect.

Causes serious eye irritation.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

(Contd. on page 6)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

Harmful Irritant

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):	
102-71-6 Triethanolamine, TEA	3
· NTP (National Toxicology Program):	
None of the ingredients are listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	

## 12 Ecological information

- · Toxicity:
- · Aquatic toxicity:

#### 102-71-6 Triethanolamine, TEA

EC50 609.98 mg/l (daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment:
- · **PBT**: Not applicable.
- vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods:
- · **Recommendation:** Recycle or dispose with household trash.
- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

· UN-Number:

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name:

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es):

· DOT, ADR, ADN, IMDG, IATA

· Class: Non-Regulated Material

· Packing group:

· DOT, ADR, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.Special precautions for user: Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

(Contd. on page 7)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

· UN "Model Regulation": Non-Regulated Material

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

- Signal word: Warning
- · Hazard-determining components of labeling:

Poly(ethylene glycol-ran-propylene glycol) monobutyl ether

· Hazard statements:

Harmful if swallowed.

Causes skin and eye irritation.

Precautionary statements:

Wear protective gloves.

Wash thoroughly after handling.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/03/2015 Reviewed on 08/03/2015

Trade name: Kool Mist Formula 77

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 swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

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

### · National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· State Right to Know:			
		Friethanolamine, TEA	20-40%
	(	\$\frac{1}{2}\$ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
		Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	1-5%
	_	Acute Tox. 2, H300	
All ingredients are listed.		its are listed.	

<sup>·</sup> Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

#### · Date of preparation / last revision: 08/03/2015 / 4

#### · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

#### \* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106



## SAFETY DATA SHEET

#### 1. Identification

Product identifier LPS® Force 842

Other means of identification

Part Number 02516

**Recommended use** A fast evaporating dry-film lubricant designed for reducing sliding friction under high loads.

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

Company name ITW Pro Brands
Address 4647 Hugh Howell Rd.

Tucker, GA 30084

Country (U.S.A.)

Tel: +1 770-243-8800

In Case of Emergency 1-800-424-9300 (inside U.S.)

+001 703-527-3887 (outside U.S.)

Website www.lpslabs.com

E-mail lpssds@itwprobrands.com

### 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Liquefied gas
Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A
Sensitization, skin Category 1
Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects
Specific target organ toxicity, repeated Category 2 (nervous system)

exposure (inhalation)

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Health hazards



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin

irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs (nervous

system) through prolonged or repeated exposure by inhalation.

**Precautionary statement** 

**Prevention** 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. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear

protective gloves/protective clothing/eye protection/face protection.

Material name: LPS® Force 842 sps us 144

If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable Response

for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If exposed or concerned: Get medical

advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Storage Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated

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

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

### 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
2-Methylpentane		107-83-5	20 - 30
Isopropanol		67-63-0	20 - 30
Petroleum Gases, Liquefied, Sweetened		68476-86-8	20 - 30
2,3-Dimethylbutane		79-29-8	5 - 10
3-Methylpentane		96-14-0	5 - 10
2,2-Dimethylbutane		75-83-2	1 - 5
1,2,4-Trimethylbenzene		95-63-6	1 - 3
Aromatic Solvent		64742-95-6	1 - 3
N-Hexane		110-54-3	1 - 3
Rosin based resin		8050-09-7	0.1 - 1
Xylene		1330-20-7	< 1

#### 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 Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or

poison control center. Rinse mouth.

Most important symptoms/effects, acute and

delaved

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Indication of immediate medical attention and special

treatment needed

Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

sosus 145Material name: LPS® Force 842 02516 Version #: 02 Revision date: 08-18-2016 Issue date: 09-26-2015

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode 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. Do not breathe gas. 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. Use personal protection recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. 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

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. 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. Stored containers should be periodically checked for general condition and leakage. 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.

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

Components	Туре	Value	
Isopropanol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
N-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	

Material name: LPS® Force 842 sps us 146

<b>US. ACGIH Threshold Limit Values</b>			
Components	Туре	Value	
2,2-dimethylbutane (CAS 75-83-2)	STEL	1000 ppm	
	TWA	500 ppm	
2,3-Dimethylbutane (CAS 79-29-8)	STEL	1000 ppm	
	TWA	500 ppm	
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm	
	TWA	500 ppm	
3-Methylpentane (CAS 96-14-0)	STEL	1000 ppm	
	TWA	500 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
N-Hexane (CAS 110-54-3)	TWA	50 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
US. NIOSH: Pocket Guide to Chemi	ical Hazards		
Components	Туре	Value	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
N-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	

### **Biological limit values**

ACGIH Biological Exposu Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
N-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

### **Exposure guidelines**

US - California OELs: Skin designation

N-Hexane (CAS 110-54-3) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

N-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Material name: LPS® Force 842  ${\rm SDS}\,{\rm US}~147$ 4 / 11

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** 

Gas. Physical state **Form** Aerosol.

Color Dark grey. Black. Characteristic. Odor Not established Odor threshold pН Not applicable Not established Melting point/freezing point 141.8 °F (61 °C) Initial boiling point and boiling

range

Flash point < 1.4 °F (< -17.0 °C) Tag Closed Cup (dispensed liquid)

**Evaporation rate** < 1 (Ethyl Ether = 1) Flammability (solid, gas) Flammable gas.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

0.6%

Flammability limit - upper 7 %

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

352.53 mm Hg @ 38°C Vapor pressure

Vapor density ~3

0.74 - 0.76 @ 20°C Relative density

Solubility(ies)

Solubility (water) < 25 % by weight

**Partition coefficient** > 1

(n-octanol/water)

**Auto-ignition temperature** 582.8 °F (306 °C) **Decomposition temperature** Not established

< 14 cSt **Viscosity** Viscosity temperature 77 °F (25 °C)

Other information

**Explosive properties** Not explosive. Heat of combustion > 30 kJ/qNot oxidizing. Oxidizing properties

VOC 95 % per US State and Federal Consumer Product Regulations (excluding compounds exempted

by US EPA)

**CARB** 

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Isocyanates. Chlorine.

Material name: LPS® Force 842 SDS US Carbon oxides.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Causes skin irritation. May cause an allergic skin reaction. Skin contact

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May

cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

Not expected to be acutely toxic. **Acute toxicity** 

Components	Species	Test Results
1,2,4-Trimethylbenzene (CA		
Acute	(2 00 00 0)	
Dermal		
LD50	Rabbit	> 3160 mg/kg
Inhalation		
LC50	Rat	10200 mg/m3, 4 Hours
Oral		
LD50	Rat	3280 mg/kg
Aromatic Solvent (CAS 6474	42-95-6)	
<u>Acute</u>		
Dermal	D 11 %	4000 // 0411
LD50	Rabbit	> 1900 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i> LC50	Rat	> 4980 mg/m3, 4 Hours
Oral	i idi	> 4500 mg/ms, 4 modis
LD50	Rat	4820 mg/kg
Isopropanol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	16.4 ml/kg, 24 Hours
Oral		
LD50	Rat	4.7 g/kg
N-Hexane (CAS 110-54-3)		
<u>Acute</u>		
Dermal	D 11 %	5 14 411
LD50	Rabbit	> 5 ml/kg, 4 Hours
Inhalation		
<i>Vapor</i> LC50	Rat	73860 ppm, 4 Hours
Oral	riat	70000 ppm, <del>4</del> 110013
LD50	Rat	49 ml/kg
Rosin based resin (CAS 805		Ŭ
Acute	,	
 Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours

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**Species Test Results** Components

Oral

Rat LD50 > 1000 mg/kg

Xylene (CAS 1330-20-7)

Acute **Dermal** 

LD50 Rabbit > 5000 ml/kg, 4 Hours

Inhalation

Vapor

LC50 Rat 6700 ppm, 4 Hours

Oral

LD50 Rat 10 ml/kg

Skin corrosion/irritation Causes skin irritation.

Serious eve damage/eve

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

**ACGIH** sensitization

Rosin based resin (CAS 8050-09-7) Dermal sensitization

Respiratory sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

**ACGIH Carcinogens** 

Isopropanol (CAS 67-63-0) A4 Not classifiable as a human carcinogen. Xylene (CAS 1330-20-7) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Suspected of damaging fertility. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (nervous system) through prolonged or repeated exposure by

inhalation.

Aspiration hazard Not likely, due to the form of the product.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure. 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.

**Species Test Results** Components

1,2,4-Trimethylbenzene (CAS 95-63-6)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 7.19 - 8.28 mg/l, 96 hours

Isopropanol (CAS 67-63-0)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

150 Material name: LPS® Force 842 SDS US

Components **Species Test Results** 

N-Hexane (CAS 110-54-3)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

Xylene (CAS 1330-20-7)

Aquatic

LC50 7.711 - 9.591 mg/l, 96 hours Fish Bluegill (Lepomis macrochirus)

Persistence and degradability Not inherently biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

LPS® Force 842 > 1 2,2-Dimethylbutane 3.82 2,3-Dimethylbutane 3.42 2-Methylpentane 3.74 3-Methylpentane 3.6 Isopropanol 0.05 N-Hexane 3.9 **Xylene** 3.12 - 3.2

Mobility in soil No data available. Other adverse effects None known.

13. Disposal considerations

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

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

D001: Waste Flammable material with a flash point <140 F

D003: Waste Reactive material

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

**UN number** UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Not applicable. Packing group

**Environmental hazards** 

Marine pollutant

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82 Packaging exceptions 306 None Packaging non bulk Packaging bulk None

IATA

UN1950 **UN number** 

**UN** proper shipping name Aerosols, flammable

Transport hazard class(es)

2.1 **Class** Subsidiary risk

Label(s) 2.1

Packing group Not applicable.

No.

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed v

Allowed with restrictions.

**IMDG** 

UN number UN1950

UN proper shipping name Transport hazard class(es)

Aerosols, flammable

Not applicable.

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



**General information** 

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

N-Hexane (CAS 110-54-3) Listed.

Material name: LPS® Force 842 sps us 152

Xylene (CAS 1330-20-7) Listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

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

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
1,2,4-TRIMETHYLBENZENE	95-63-6	1.91	-
N-HEXANE	110-54-3	1.29	

### Other federal regulations

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

N-Hexane (CAS 110-54-3) Xylene (CAS 1330-20-7)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Isopropanol (CAS 67-63-0) Low priority

**US state regulations** 

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.

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

1,2,4-Trimethylbenzene (CAS 95-63-6) Aromatic Solvent (CAS 64742-95-6)

Isopropanol (CAS 67-63-0) N-Hexane (CAS 110-54-3)

Petroleum Gases, Liquefied, Sweetened (CAS 68476-86-8)

Xylene (CAS 1330-20-7)

### International Inventories

Country(s) or region	Inventory name On in	nventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered by the governing	country(s)

SDS US 153 Material name: LPS® Force 842

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
 09-26-2015

 Revision date
 08-18-2016

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.

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

Material name: LPS® Force 842 sps us 154



### SAFETY DATA SHEET

### **SECTION 1: Product and Company Identification**

Product Name: NEW RAPID TAP

Recommended Use: Multi-purpose metal cutting oil

**Manufacturer Information:** 

Relton Corporation-Chemical Division Phone: (800)-423-1505

317 Rolyn Place Emergency Number (24 hours): Arcadia, CA 91007-2838 CHEMTREC 800-424-9300

**SECTION 2: Hazards Identification** 

GHS Classification: Hazardous to the aquatic environment, acute hazard: Category 1, H400

Hazardous to the aquatic environment, long term hazard: Category 1, H410

**GHS Label Elements:** 

Signal Word: Warning

**Hazard Statements:** 

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

**Precautionary Statements** 

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P308+P313 IF exposed or concerned: Get medical advice/ attention.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container to an appropriate waste treatment facility.

Hazards not otherwise

classsifed (HNOC):

Not listed

### **SECTION 3: Composition/Information on Ingredients**

Chemical Name	CAS#	%	
Severely solvent refined heavy naphthenic distillates, Hydrotreated heavy naphthenic petroleum distillates	64741-96-4, 64742-52-5	40-50	*
Alkanes, C14-C16, Chloro	1372804-76-6	30-40	*
Calcium sulfonate	confidential	5-10	*

The remaining ingredients are classified as non hazardous or are below reportable levels.

<sup>\*</sup>The exact percentage of composition has been withheld as a trade secret

**SECTION 4: First Aid Measures** 

Inhalation: May cause mild respiratory tract irritation. Remove individual to fresh air. If breathing

is difficult give oxygen.

Skin Contact: Flush the affected area with water for 15 minutes minimum. Remove exposed or

contaminated clothing and shoes. Wash contaminated clothing before reuse. Seek

medical attention if irritation develops.

Eye Contact: Remove contact lenses if present. Rinse eyes thoroughly with water for 15 minutes

minimum. Seek medical attention if eye irritation develops or persists.

Ingestion: If conscious give one cup of water or milk if available and transport to a medical

facility. Do not give anything by mouth to an unconscious person.

Most important symptoms

acute or delayed: Not available

Recommendations for immediate medical

care and special treatment:

Not available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media: Slightly combustible. Use carbon dioxide, extinguishing powder or foam. Avoid

water spray.

Unsuitable extinguishing media: Not available

Specific hazards arising

during fire:

Combustion may generate carbon monoxide, carbon dioxide, hydrogen chloride

and oxides of sulfur and calcium

Firefighting equipment: Firefighters should wear suitable protective equipment

Firefighting instructions: Evacuate personnel to a safe area. Firefighters should use self contained breathing

equipment and protective clothing. Keep containers cool with water spray.

**SECTION 6: Accidental Release Measures** 

Personal Precautions: Wear appropriate protective equipment and clothing during clean up. Keep

unprotected persons away.

**Environmental Precautions** Do not allow product to enter sewers, surface or ground waters.

Methods and materials for Contain and recover liquid when possible. Absorb with suitable absorbent and place

in a chemical waste container for proper disposal (see Section 13, Disposal

Considerations).

**SECTION 7: Handling and Storage** 

containment and cleanup:

**Precautions for safe handling:** As with all chemical products, avoid contact and wash thoroughly after handling.

Do not eat, drink or smoke while using this product. Use only in well-ventilated areas. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage including incompatibilities:

All personnel who handle this product should be trained in its safe handling. Store tightly closed in cool, dry, ventilated area. Keep out of direct sunlight and away from heat and incompatible materials. Avoid contact with acids, oxidizing agents, and

caustics.

### **SECTION 8: Exposure Controls/Personal Protection**

### **Exposure limit values**

Material	CAS#	List	Туре	Value
Alkanes, C14-C16, Chloro	1372804-76-6	No data available		
Severely solvent refined	64741-96-4	OSHA	PEL	5 mg/m3 (TWA 8h)
heavy naphthenic distillate		ACGIH	TLV	5 mg/m3 (TWA 8h)
Petroleum distillates,	64742-52-5	OSHA	PEL	5 mg/m3 (as oil mist)
hydrotreated heavy naphthenic		ACGIH	TLV	5 mg/m3 (as oil mist)

Appropriate Engineering Controls: Provide sufficient mechanical (general/and or local exhaust) ventilation to maintain

exposure below exposure guidelines, if applicable, or below levels that cause known,

suspected, or adverse effects.

**Personal Protective Measures** 

Eye/face protection: Use chemical goggles or full face shield.

**Hand protection:** Use chemically-resistant gloves.

Respiratory protection: Not required under normal conditions of use. If airborne concentrations exceed

applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards: Not available

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

Eyewash station and safety shower should be in vicinity of work area.

### **SECTION 9: Physical and Chemical Properties**

Appearance: Amber colored oily liquid

Odor: Mild petroleum
Odor threshold: Not available
pH: Not applicable
Solubility in water: Insoluble
Viscosity: Not available

Specific Gravity @ 70F: 1.04

Melting point:Not availableFreezing point:Not available

VOC Content (ASTM E-1868-10): Less than 10g/L AQMD SUPER COMPLIANT

Initial boiling point

and boiling range:Not availableFlash point:Not determinedEvaporation rate:Not availableFlammability (solid, gas):Not available

Upper/Lower flammability or explosive limits (%)
Flammability limit-lower: Not available
Flammability limit-upper: Not available

**Explosive limit-lower:** Not available **Explosive limit-upper:** Not available

Vapor pressure<0.01 mmHg @ 20°C</th>Vapor densityHeavier than air

**Partition coefficient** 

(octanol:water) Not available

Auto-ignition temperatureNot availableDecomposition temperatureNot availableDecomposition temperatureNot available

### SECTION 10: Stability and Reactivity

**Reactivity:** No reactivity hazards are known.

Chemical Stability: Material is stable under normal conditions of storage and handling.

Possibility of No hazardous reactions are known under normal conditions of use.

hazardous reactions:

Conditions to avoid: Keep away from heat, sparks, open flames. Protect from freezing.

Materials to avoid: Do not store with strong oxidizing agents. Keep away from heat, sparks, open flames, or

all sources of ignition.

Hazardous decomposition

products:

May include carbon monoxide, carbon dioxide, hydrogen chloride, oxides of calcium and

sulfur.

irritation.

### **SECTION 11: Toxicological Information**

### **Acute Toxicity:**

C14-C16 chlorinated paraffins 1372804-76-6

Test	Species	Test Results
Dermal Acute Liquid DNEL	Human	0.0065 mg/kg, 8 hours
Oral Liquid	Rat	23 mg/kg, 90 days by body weight - effected organ kidney; repeat dose study
Inhalation Chronic Liquid DNEL	Rat	6.7 mg/m³
Oral LD50 Liquid	Rodent	LD50 15000 mg/kg
NOAEL	Rat	100 mg/kg, 90 days by body weight - target organ liver; Reproductive 1-generation study
Skin:	Not e	expected to be a primary skin irritant. Prolonged or repeated contact may cause

**Eyes:** May cause mild eye irritation.

**Inhalation:** May cause mild irritation of the respiratory tract with prolonged exposure.

**Ingestion:** Ingestion may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea,

and abdominal pain.

Delayed and immediate

effects of exposure: Not available.

Classification	Category	Hazard Description	tion	
Acute toxicity (oral)	Not classified	Not applicable		
Acute toxicity (dermal)	Not classified	Not applicable		
Acute toxicity (inhalation)	Not classified	Not applicable		
Skin corrosion/irritation	Not classified	Not applicable		
STOT -single exposure	Not classified	Not applicable		
STOT-repeated exposure	Not classified	Not applicable		
Serious eye damage/eye irritation	Not classified	Not applicable		
Respiratory sensitization	Not classified	Not applicable		
Skin sensitization	Not classified	Not applicable		
Carcinogenicity	Not classified	Not applicable		
Reproductive toxicity	For C14-C16 chlorinated para	ffins 1372804-76-6:		

400 mg/kg/day diet produced internal hemorrhaging due to the inhibition of vitamin K uptake in rat dams and rat pups. The mode of action for the effect is likely due to a pre-existing vitamin K deficiency in the rodents. This result was not observed in the uterine lining of the rat dams where there was sufficient supply of vitamin K. In addition, the mode of action for the observed effects in rats is not equivalent to human exposure. IRDC (International Research and Development Corporation). 1985. Chlorinated Paraffin: Reproduction Range-Finding Study in Rats.

IRDC Report No. 438/049, Mattawan Michigan USA.

Carcinogenicity:

IARC: No ingredient is considered to be carcinogenic.

OSHA: No ingredient is considered to be carcinogenic.

NTP: No ingredient is considered to be carcinogenic.

### **SECTION 12: Ecological Information**

**Ecotoxicity:** Alkane C14-C16 Chloro (CAS # 1372804-76-6) is very toxic to aquatic life with long lasting effects

Ingredient	CAS No.	Algae	Fish	Crustacea
Alkanes, C14-C16, Chloro	1372804-76-6		LC Bluegill (Lepomis macrochirus) > 0.1 mg/l, 96 hours	Not listed
			Rainbow trout,donaldson trout (Oncorhynchus mykiss) > 0.1 mg/l, 96 Hours	Not listed
severely solvent refined heavy naphthenic distillate 64741-96-4			5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	64742-52-5		5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50

Bioaccumulation potential: Not available.

Mobility: Not available.

Other adverse effects: This material is expected to have adverse effects on marine and plant life. Spills may

contaminate drinking water.

### **SECTION 13: Disposal Considerations**

**Disposal instructions:** Waste disposal must be in accordance with appropriate US Federal, State and Local

regulations.

Disposal of contaminated containers or packaging:

Dispose of as unused product.

### **SECTION 14: Transportation Information**

DOT

Not regulated as dangerous goods

**IATA** 

Not regulated as dangerous goods

**IMDG** 

UN Number: 3082

**UN proper shipping name:** Environmentally hazardous substances, liquid, N.O.S, (Alkanes, C14-C16, chloro)

Transport hazard class: 9
Subsidiary risk Packing group: III
Labels: 9
Marine Pollutant: Yes

### **SECTION 15: Regulatory Information**

**Toxic Substances Control Act**All components of this product are on the TSCA Inventory or are exempt from

(TSCA): reporting requirements.

SARA 302 Extremely Hazardous

Substances:

No

### SARA 311/312 Classification:

Immediate hazardNoDelayed hazardNoFire hazardNoReactive hazardNoPressure hazardNo

SARA 313 Components: No

### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm

### **HMIS Information:**

### **NFPA Information:**

Health	1
Flammability	1
Reactivity	1
Personal Protection	В



### **SECTION 16: Other Information**

Issue date: March 30, 2015
Revision date: February 25, 2019

Version: 8.0

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### SAFETY DATA SHEET

Sid Harvey item # T643-2 SDS # Z0224

Product Name:

RIDGID Nu-Clear Thread Cutting Oil (United States)

Product Catalog No.:

11461, 11481, 41575, 41585, 42513, 70835

Recommended Use:

**Thread Cutting** 

Restrictions on Use: Industrial use only

Company Information:

North America

Ridge Tool Company 400 Clark Street Elyria, Ohio 44035-6001 1-800-519-3456 (8:00 am - 5:00 pm EST, M-F)**Emergency Telephone** 

call 9-1-1 or local emergency number

www.RIDGID.com

<u>Austral</u>ia

Ridge Tool Australia 127 Metrolink Circuit Campbellfield, VIC 3061

1-800-743-443

(8:30 am - 5:00 pm AEST, M-F)

**Emergency Telephone** 

call 000 or local emergency number

www.RIDGID.com.au

Issue Date: May 2, 2018

Revision: K

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	Section 2 – Ha	zards Identific	eation
Hazard Classification	<del>-</del>		
	(HazCom 2012)		azardous per US OSHA 29CFR 1910.1200
Label Elements			
Hazard Symbol:	No symbol		
Signal Word:	No signal word.		
Hazard Statement:	Not applicable		
Precautionary Statements	Not applicable		
Other hazards which do not result in GHS classification:	None.		
Section 3	- Composition	/ Information(	On Ingredients
General information:	This product do	es not contain silid	cone or chlorinated additives.
Hazardous Component(s):			
Chemical name		CAS-No.	Concentration
Mineral oil		Confidential	20 - <50%
Paraffin oils		Confidential	20 - <50%
Vegetable oil		Confidential	1 - <5%

Specific chemical identities and/or exact percentages have been withheld as trade secrets.



**Section 4 – First Aid Measures** 

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

Do NOT induce vomiting.

Inhalation: Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap

and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Continue to rinse for at least 15 minutes.

Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** Get medical attention if symptoms occur.

**Section 5 – Fire Fighting Measures** 

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or regular foam. Use fireextinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Heat may cause the containers to explode. During fire, gases hazardous to

health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.



Section	on 6 - Accidental Release Measures
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation.
Methods and material for containment and cleaning up:	Absorb with sand or other inert absorbent. Stop the flow of material, if this without risk.
Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
s	ection 7 – Handling And Storage
Precautions for safe handling:	Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container.
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials. Shelf Life: 720 Days



# Section 8 – Exposure Controls / Personal Protection

### **Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017)
Mineral oil - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Paraffin oils - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Paraffin oils - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Paraffin oils - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Vegetable oil - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Vegetable oil - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

**Protective Measures:** Use personal protective equipment as required.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

supervisor on the company's respiratory protection standards.

**Eye Protection:** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection:** Wear protective clothing appropriate for the risk of exposure. Be aware of other

hazards such as rotating parts. Contact health and safety professional or

manufacturer for specific information.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear

that cannot be cleaned.

Section 9 – Physical And Chemical Properties	
	<u></u>

### **Appearance**

Physical state: Liquid

Form: No data available.

Color: Yellow

Odor:

Odor threshold:

PH:

No data available.

No data available.

No data available.

No data available.



Initial boiling point and boiling range: No data available. Flash Point: 196.11 °C (385.00 °F) **Evaporation rate:** No data available. Flammability (solid, gas): No data available. Upper/lower limit on flammability or explosive limits Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available. Vapor pressure: No data available. Vapor density: No data available. Relative density: 0.878 Solubility(ies) Solubility in water: Insoluble No data available. Solubility (other): Partition coefficient (n-octanol/water): No data available. No data available. **Auto-ignition temperature: Decomposition temperature:** No data available. Viscosity: 43 mm2/s (40 °C, Measured) Other information VOC: 1.1 % (Method 24) 9.4 g/I (ASTM E 1868-10) Section 10 - Stability And Reactivity Reactivity: Not reactive during normal use. **Chemical Stability:** Material is stable under normal conditions. Possibility of hazardous None under normal conditions. reactions: Conditions to avoid: Avoid heat or contamination. **Incompatible Materials:** No data available. **Hazardous Decomposition** Thermal decomposition or combustion may liberate carbon oxides and Products: other toxic gases or vapors. **Section 11 – Toxicological Information** 

Information on likely routes of exposure

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.



**Inhalation:** Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** Prolonged skin contact may cause redness and irritation.

**Eye contact:** Eye contact is possible and should be avoided.

Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.

**Dermal** 

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified



### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No carcinogenic components identified

Germ	Cell	Mutage	enicity

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

Section 12 – Ecological Information

General information: This product has not been evaluated for ecological toxicity or other

environmental effects.

\_\_\_\_\_

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

**Section 13 – Disposal Consideration** 

laws. Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must

be applied.

**Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for

recycling or disposal.



	Section 14 – Transportation Information	
DOT Not regulated.		
IMDG Not regulated.		
Not regulated.		
	Section 15 – Regulatory Information	
US Federal Regulati	ions	
	ically Regulated Substances (29 CFR 1910.1001-1050) none present in regulated quantities.	

## Hazard categories

This product is classified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012)

### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

### **US State Regulations**

### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.



Section 16 – Other Information	

Prepared by:..... Ridge Tool Company (Operating Standard 6-101)

Issue Date: . . . . . . . . . . . . . . . May 2, 2018 Last Revision Date: . . . . . March 8, 2017

RIDGE TOOL BELIEVES THE STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE RELIABLE BUT THEY ARE GIVEN WITHOUT WARRANTY OR GUARANTEE OF ANY KIND, EXPRESSED OR IMPLIED, AND WE ASSUME NO RESPONSIBILITY FOR ANY LOSS, DAMAGE OR EXPENSE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THEIR USE.



### FICHE SANTÉ/SÉCURITÉ

1 – Identification du produit et du fournisseur

Produit:

RIDGID Nu-Clear Thread Cutting Oil (Etats-Unis)

Réf. catalogue:

11461, 11481, 41575, 41585, 42513, 70835

Emploi recommandé: Filetage mécanique

Restrictions d'utilisation: Usage industriel seulement

Fournisseur:

North America

Ridge Tool Company
400 Clark Street
Elyria, Ohio 44035-6001
1-800-519-3456
(Etats-Unis) (du lundi au vendredi de 8h à 17h EST)
Téléphone d'urgence:
composer le 9-1-1 ou appeler les services d'urgences appropriés
www.RIDGID.com

Date de publication: le 2 mai 2018

Révision K

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2 - Identification des risques	

Classe de Danger

Ce produit est classé comme non dangereux selon la norme américaine OSHA 29CFR 1910.1200 (HazCom 2012)

Éléments d'Étiquetage

Symbole de Danger: Aucun symbole

Mention Aucun mot indicateur.

d'Avertissement:

Mention de Danger: Non applicable

Conseils de Prudence Non applicable

Autres dangers ne donnant pas lieu à classement selon le SGH:

Aucun(e).

## 3 – Composition du produit et renseignements sur ses ingrédients

**Informations générales:** Ce produit ne contient pas de silicone ou d'additifs chlorés.

Composant(s) dangereux:

Désignation chimique	N° CAS	Concentration
Mineral oil	Confidentiel	20 - <50%
Paraffin oils	Confidentiel	20 - <50%
Vegetable oil	Confidentiel	1 - <5%

Les identités chimiques spécifiques et-ou les pourcentages exacts ont été refusées comme les secrets commerciaux.

 4 – Premiers soins	

Ingestion: Rincer soigneusement la bouche. Appeler un CENTRE ANTIPOISON/un

médecin en cas de malaise. NE PAS faire vomir.

Inhalation: Transporter à l'air frais. Appeler un CENTRE ANTIPOISON/un médecin en

cas de malaise.

Contact avec la Peau: Enlever les vêtements et les chaussures contaminés. Laver les zones de

contact à l'eau et au savon. En cas d'irritation cutanée: consulter un

médecin.



Contact oculaire: Rincer avec soin à l'eau. En cas d'irritation, consulter un médecin,

Continuer à rincer pendant au moins 15 minutes.

Symptômes/effets les plus importants, aigus et différés

**Symptômes:** Aucune information disponible.

Indication d'un besoin médical immédiat et traitement spécial requis

**Traitement:** Consulter un médecin en cas de symptômes.

### 5 - Lutte contre les incendies

Dangers d'Incendie Généraux: Aucun risque exceptionnel d'incendie et d'explosion.

Moyens d'extinction appropriés (et inappropriés)

Moyens d'extinction

appropriés:

Eau pulvérisée, brouillard, CO2, agent chimique sec ou mousse standard. Choisir le moyen d'extinction de l'incendie en tenant compte d'autres

produits chimiques éventuels.

Moyens d'extinction

inappropriés:

Ne pas lutter contre l'incendie au jet d'eau pour ne pas propager les

flammes.

Dangers spécifiques dus au

produit chimique:

La chaleur peut provoquer l'explosion des récipients. En cas d'incendie,

des gaz dangereux pour la santé peuvent se former.

Équipement de protection spécial et précautions pour les pompiers

Procédures spéciales de lutte

contre l'incendie:

Aucune information disponible.

Équipement de protection spécial pour le personnel préposé à la lutte contre le

feu:

Les pompiers doivent porter un équipement de protection standard, notamment vêtement ignifuge, casque à masque facial, gants, bottes en caoutchouc et, dans les espaces clos, un appareil respiratoire autonome.



Conditions d'un stockage sûr,

y compris d'éventuelles

incompatibilités:

### **Produit: RIDGID Nu-Clear Thread Cutting Oil (Etats-Unis)**

### 6 - Lutte contre les déversements accidentels Précautions individuelles, Voir l'équipement de protection individuelle à la Section 8. Ne pas toucher équipement de protection et les récipients endommagés ou le produit déversé à moins de porter les procédures d'urgence: vêtements de protection appropriés. Maintenir à distance le personnel non autorisé. Assurer une ventilation adéquate. Méthodes et matériel de Absorber le produit avec du sable ou un autre absorbant inerte. Arrêter le débit de matière, si ceci est sans risque. confinement et de nettoyage: Précautions pour la Protection Éviter le rejet dans l'environnement. Ne pas contaminer les sources d'eau de l'Environnement: ou les égouts. Endiguer la fuite ou le déversement si cela peut être fait sans danger. 7 - Manipulation et stockage Précautions à prendre pour une Se conformer aux bonnes pratiques d'hygiène industrielle. Porter un équipement de protection personnelle approprié. N'exposez pas à la manipulation sans danger: chaleur intense comme le produit peut développer et pressuriser le récipient.

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Conserver dans le récipient d'origine hermétiquement fermé. Éviter tout

contact avec des agents comburants. Conserver à l'écart des matières

incompatibles. Durée de conservation: 720 jours



## 8 – Risques d'exposition et protection individuelle

### **Limites d'Exposition**

Désignation chimique	Туре	Valeurs Limites d'Exposition	Source
Mineral oil - Brouillard	PEL	5 mg/m3	Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (01 2017)
Mineral oil - Brouillard	TWA	5 mg/m3	Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (1989)
Paraffin oils - Fraction inhalable.	TWA	5 mg/m3	Les Etats-Unis. Valeurs de Limite de Seuil d'ACGIH (03 2014)
Paraffin oils - Brouillard	PEL	5 mg/m3	Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (02 2006)
Paraffin oils - Brouillard	TWA	5 mg/m3	Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (1989)
Vegetable oil - poussière totales	PEL	15 mg/m3	Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (02 2006)
Vegetable oil - Fraction alvéolaire.	PEL	5 mg/m3	Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (02 2006)

**Mesures de protection:** Utiliser l'équipement de protection individuel requis.

**Protection respiratoire:** En cas de ventilation insuffisante, porter un appareil respiratoire approprié.

Demander l'avis du superviseur sur les normes de protection respiratoire de la

société.

Protection des Yeux: Porter des lunettes de sécurité à écrans latéraux ou des lunettes étanches.

Protection de la peau et du

corps:

Porter des vêtements de protection appropriés au risque d'exposition. Soyez conscient des autres dangers tels que les pièces en rotation. Contacter un professionnel de la santé et de la sécurité ou un fabricant pour obtenir des

informations spécifiques.

Mesures d'hygiène: Toujours adopter de bonnes pratiques d'hygiène personnelle, telles que lavage

après manipulation de la substance et avant de manger, de boire ou de fumer. Laver régulièrement la tenue de travail pour éliminer les contaminants. Mettre

au rebut les chaussures qui ne peuvent pas être lavées.



9 - Caractéristiques physiques et chimiques **Aspect** État: Liquide Forme: Aucune information disponible. Couleur: Jaune Odeur: Légère, Pétrole/solvant Seuil de perception de l'odeur: Aucune information disponible. Aucune information disponible. Point de fusion/point de congélation: Aucune information disponible. Température d'ébullition initiale et intervalle d'ébullition: Aucune information disponible. Point d'éclair: 196.11 °C (385.00 °F) Taux d'évaporation: Aucune information disponible. Inflammabilité (solide, gaz): Aucune information disponible. Limites supérieures/inférieures d'inflammabilité ou d'explosivité Limites d'inflammabilité - supérieure (%): Aucune information disponible. Limites d'inflammabilité - inférieure (%): Aucune information disponible. Limites d'explosivité - supérieure (%) Aucune information disponible. Limites d'explosivité - inférieure (%): Aucune information disponible. Pression de vapeur: Aucune information disponible. Densité de vapeur: Aucune information disponible. Densité relative: 0.878 Solubilités Solubilité dans l'eau: Insoluble Solubilité (autre): Aucune information disponible. Coefficient de partition (n-octanol/eau): Aucune information disponible. Température d'auto-inflammation: Aucune information disponible. Température de décomposition: Aucune information disponible. Viscosité: 43 mm2/s (40 °C, Mesurée) **AUTRES INFORMATIONS** VOC: 1.1 % (Method 24) 9.4 g/I (ASTM E 1868-10)



10 - Stabilité et réactivité

**Réactivité:** Non réactif pendant l'utilisation normale.

**Stabilité Chimique:** Ce produit est stable dans des conditions normales.

Possibilité de Réactions

Dangereuses:

Aucun(e)(s) dans les conditions normales.

**Conditions à Éviter:** Éviter tout chauffage ou contamination.

Matières Incompatibles: Aucune information disponible.

Produits de Décomposition

Dangereux:

La décomposition thermique ou la combustion peut libérer des oxydes de

carbone et d'autres gaz ou vapeurs toxiques.

### 11 - Données toxicologiques

### Informations sur les voies d'exposition probables

Ingestion: Peut être ingéré par accident. L'ingestion peut provoquer irritation et

malaises.

**Inhalation:** L'inhalation est la principale voie d'exposition. À concentration élevée, les

vapeurs, émanations ou brouillards peuvent être irritants pour le nez, la

gorge et les muqueuses.

Contact avec la Peau: Le contact prolongé avec la peau peut entraîner des rougeurs et de

l'irritation.

**Contact oculaire:** Le contact oculaire est possible ; il doit être évité.

Symptômes liés aux caractéristiques physiques, chimiques et toxicologiques

**Ingestion:** Aucune information disponible.

**Inhalation:** Aucune information disponible.

**Contact avec la Peau:** Aucune information disponible.

**Contact oculaire:** Aucune information disponible.

### Informations sur les effets toxicologiques

Toxicité aiguë (répertorier toutes les voies d'exposition possibles)

Ingestion

**Produit:** Non classé comme présentant une toxicité aiguë d'après les données

disponibles.



Contact avec la peau

Produit:

Non classé comme présentant une toxicité aiguë d'après les données

disponibles.

Inhalation

**Produit:** Non classé comme présentant une toxicité aiguë d'après les données

disponibles.

Toxicité à dose répétée

**Produit:** Aucune information disponible.

Corrosion ou Irritation de la Peau

**Produit:** Aucune information disponible.

Blessure ou Irritation Grave des Yeux

**Produit:** Aucune information disponible.

Sensibilisation Respiratoire ou Cutanée

**Produit:** Aucune information disponible.

Cancérogénicité

Produit: Aucune information disponible.

Monographies du CIRC sur l'évaluation des risques de cancérogénicité pour l'homme

Aucun composant cancérigène identifié

États-Unis. Rapport du NTP (National Toxicilogy Program) sur les cancérogènes :

Aucun composant cancérigène identifié

ÉTATS-UNIS. Substances spécialement réglementées par l'OSHA (29 CFR 1910.1001-1050)

Aucun composant cancérigène identifié

Mutagénicité des Cellules Germinales

In vitro

**Produit:** Aucune information disponible.

In vivo

**Produit:** Aucune information disponible.

Toxicité pour la reproduction

**Produit:** Aucune information disponible.

Toxicité Spécifique au Niveau de l'Organe Cible- Exposition Unique

**Produit:** Aucune information disponible.

Toxicité Spécifique au Niveau de l'Organe Cible- Expositions répétées

**Produit:** Aucune information disponible.

Risque d'Aspiration

**Produit:** Aucune information disponible.

Autres effets: Aucune information disponible.



## **Produit: RIDGID Nu-Clear Thread Cutting Oil (Etats-Unis)** 12 – Données écologiques Informations générales: Ce produit n'a pas été évalué pour la toxicité écologique ou d'autres effets de l'environnement. 13 - Recyclage Instructions pour l'élimination: Le rejet, le traitement et l'élimination peuvent être soumis à des lois nationales, régionales ou locales. Éliminer les déchets dans une installation de traitement et d'élimination des déchets appropriée conformément aux lois et aux réglementations en vigueur et en fonction des caractéristiques du produit au moment de l'élimination. C'est la responsabilité de l'utilisateur de produit ou du propriétaire pour déterminer au moment de la disposition, qui se perdent les règlements doivent être appliqués. **Emballages Contaminés:** Les conteneurs vides doivent être acheminés vers un site agréé pour le traitement des déchets à des fins de recyclage ou d'élimination. 14 - Transport Ministère des transports des États-Unis (Department of Transportation, DOT) Non réglementé. **IMDG** Non réglementé. IATA Non réglementé. 15 – Réglementation Réglementations Fédérales des Etats-Unis

ÉTATS-UNIS. Substances spécialement réglementées par l'OSHA (29 CFR 1910.1001-1050)

Aucun présent ou aucun présent dans des quantités réglementées.

Superfund Amendments and Reauthorization Act de 1986 (SARA)

### Catégories de danger

Ce produit est classé comme non dangereux selon la norme américaine OSHA 29CFR 1910.1200 (HazCom 2012)

### SARA 313 (Déclaration au TRI)

Aucun présent ou aucun présent dans des quantités réglementées.

### États-Unis - Réglementation des États

### États-Unis - Proposition 65 de la Californie

Aucun composant réglementé par la Proposition 65 de la Californie n'est présent.



16 – Renseignements divers

Rédaction : Ridge Tool Company (OPSTD 6-101)

Date de publication : le 2 mai 2018 Dernière révision : le 8 mars 2017

Quoi que la société Ridge Tool estime que les affirmations, informations techniques et recommandations ci-présentes sont dignes de confiance, celles-ci ne sont données qu'à titre indicatif, sans aucune garantie expresse ou implicite, et ne sauraient engager la responsabilité civile de la société en cas de pertes, dommages et intérêts, voire frais directs ou indirects relevant de leur application.



# **HOJA DE DATOS DE SEGURIDAD**

# Sección 1 – Identificación del producto y la compañía

Nombre del producto:

RIDGID Nu-Clear Thread Cutting Oil (Estados Unidos)

No. de catálogo:

11461, 11481, 41575, 41585, 42513, 70835

Uso recomendado:

Para cortar roscas

Restricciones de utilización:

Uso industria seulement

Nombre de la compañía:

# North America

Ridge Tool Company

400 Clark Street

Elyria, Ohio 44035-6001, EE. UU.

Teléfono 1-800-519-3456 (EE. UU.) (8:00 a 17:00 hora

estándar del este, lunes a viernes)

Teléfono de emergencia: Llame al 9-1-1 o al teléfono de

emergencia local www.RIDGID.com

Fecha de publicación: 2 de mayo de 2018

Révision: K

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Sección 2 – Identificación de peligros

Clasificación de Peligro

Este producto está clasificado como no peligroso según la norma OSHA 29CFR

1910.1200 (HazCom 2012)

Elementos de la Etiqueta

Símbolo de Peligro: No hay símbolo

Palabra de Advertencia: No hay palabra de advertencia.

Indicación de Peligro: No aplicable

Consejos de Prudencia No aplicable

Otros peligros que no dan lugar a clasificación SGA:

Ninguno.

# Sección 3 – Composición e información sobre ingredientes

**Información general:** Este producto no contiene silicona o aditivos clorados.

Componente(s) peligroso(s):

Determinación química	No. CAS	Concentración
Mineral oil	Confidencial	20 - <50%
Paraffin oils	Confidencial	20 - <50%
Vegetable oil	Confidencial	1 - <5%

Las identidades químicas específicas y/o los porcentajes exactos han sido retenidos como secretos de fabricación.

Sección 4 – Primeros auxilios

Ingestión: Enjuagar a fondo la boca. Llamar a un CENTRO DE TOXICOLOGÍA /

médico si la persona se encuentra mal. NO provocar el vómito.

Inhalación: Trasladar al aire libre. Llamar a un CENTRO DE TOXICOLOGÍA / médico

si la persona se encuentra mal.

Contacto con la Piel: Quitar ropa y zapatos contaminados. Lave las áreas de contacto con agua

y jabón. En caso de irritación cutánea: Consultar a un médico.

Contacto con los ojos: Lave con abundante agua. Si aparece irritación, busque asistencia médica.

Continuar enjuagando durante al menos 15 minutos.



Los síntomas y efectos más importantes, tanto los agudos como los retardados

**Síntomas:** No hay datos disponibles.

Indicación de asistencia médica inmediata y tratamiento especial necesario

**Tratamiento:** Obtenga atención médica en caso de síntomas.

#### Sección 5 – Medidas contra incendios

Riesgos Generales de Incendio:

Ningún riesgo excepcional de incendio o explosión señalado.

Medios de extinción adecuados (y no adecuados)

Medios de extinción apropiados:

Agua pulverizada, neblina, CO2, polvos químicos, o espuma normal Seleccione el medio de extinción más apropiado, teniendo en cuenta la

posible presencia de otros productos químicos.

Medios de extinción no apropiados:

No utilice chorro de agua, pues extendería el fuego.

Peligros específicos derivados de la sustancia química:

El calor puede ocasionar explosión de los recipientes. En caso de incendio se pueden formar gases nocivos.

Equipo especial de protección y medias de precaución para los bomberos

Medidas especiales de lucha

contra incendios:

No hay datos disponibles.

Equipos de protección especial que debe llevar el personal de lucha contra incendios:

Los bomberos deben utilizar un equipo de protección estándar incluyendo chaqueta ignífuga, casco con careta, guantes, botas de goma, y, en espacios cerrados, equipo de respiración autónomo (SCBA, según sus siglas en inglés).

# Sección 6 - Medidas en caso de liberación accidental

Precauciones personales, equipo de protección y procedimientos de emergencia: Consulte la sección 8 de la FDS sobre equipo de protección personal. No toque los recipientes dañados o el material derramado a menos que esté usando ropa protectora adecuada. Mantener alejado al personal no autorizado. Asegúrese una ventilación apropiada.

Métodos y material de contención y de limpieza:

Absorber con arena u otro absorbente inerte. Detenga el flujo del material, si esto no representa un riesgo.

Precauciones Relativas al Medio Ambiente:

Evitar su liberación al medio ambiente. No contamine el drenaje o el alcantarillado. Impedir nuevos escapes o derrames de forma segura.



Sección 7 – Manipulación y almacenamiento	

Precauciones para una manipulación segura:

Respete las normas para una manipulación correcta de productos químicos. Use equipo protector personal adecuado. No exponga al calor intenso cuando el producto puede ampliar y presurizar el contenedor.

Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades:

Guárdese en el recipiente original bien cerrado. Evite el contacto con agentes reductores. Consérvese alejado de materiales incompatibles. Vida útil: 720 días

# Sección 8 – Controles contra la exposición: protección personal

#### Valores Límite

Determinación química	Tipo	Valores Límite de Exposición	Fuente
Mineral oil - Niebla	PEL	5 mg/m3	NOS. OSHA la tabla Z-1 límites para contaminantes del aire (29 CFR 1910.1000) (01 2017)
Mineral oil - Niebla	TWA	5 mg/m3	NOS. OSHA la Tabla Z-1-A (29 CFR 1910.1000) (1989)
Paraffin oils - Fracción inhalable	TWA	5 mg/m3	EE.UU. ACGIH Valores umbrales límite (03 2014)
Paraffin oils - Niebla	PEL	5 mg/m3	NOS. OSHA la tabla Z-1 límites para contaminantes del aire (29 CFR 1910.1000) (02 2006)
Paraffin oils - Niebla	TWA	5 mg/m3	NOS. OSHA la Tabla Z-1-A (29 CFR 1910.1000) (1989)
Vegetable oil - Polvo total	PEL	15 mg/m3	NOS. OSHA la tabla Z-1 límites para contaminantes del aire (29 CFR 1910.1000) (02 2006)
Vegetable oil - Fracción respirable	PEL	5 mg/m3	NOS. OSHA la tabla Z-1 límites para contaminantes del aire (29 CFR 1910.1000) (02 2006)

**Medidas de protección:** Utilizar los equipos de protección individual según las necesidades.

**Protección respiratoria:** En caso de ventilación insuficiente, utilice un equipo respiratorio adecuado.

Consulte al supervisor sobre la norma de la compañía de protección

respiratoria.

**Protección de los Ojos:** Use gafas de seguridad con protectores laterales (o gafas estancas).

Protección de la Piel y del

Cuerpo:

Use ropa protectora apropiada para el riesgo de exposición. Tenga en cuenta otros peligros, como las piezas giratorias. Comuníquese con el profesional o

fabricante de salud y seguridad para obtener información específica.



Medidas de higiene: Seguir siempre buenas medidas de higiene personal, como lavarse después

de manipular el material y antes de comer, beber y/o fumar. Lave

rutinariamente la ropa de trabajo para eliminar los contaminantes. Deseche el

calzado contaminado que no se pueda limpiar.

# Sección 9 - Propiedades físicas y químicas

**Aspecto** 

Forma/estado: Líquido

Forma/Figura: No hay datos disponibles.

Color: Amarillo

Olor: Ligero, petróleo/solvente Umbral de olor: No hay datos disponibles. pH: No hay datos disponibles. Punto de fusión / Punto de congelación: No hay datos disponibles. Punto inicial de ebullición e intervalo de ebullición: No hay datos disponibles. Punto de inflamación: 196.11 °C (385.00 °F) Tasa de evaporación: No hay datos disponibles. Inflamabilidad (sólido, gas): No hay datos disponibles.

Límites superior/inferior de inflamabilidad o de explosividad

Límite superior de inflamabilidad (LSI) (%):

Límite inferior de inflamabilidad (LII) (%):

No hay datos disponibles.

**Densidad del vapor:**No hay datos disponibles. **Densidad relativa:**0.878

Solubilidad(es)

Solubilidad en agua: Insoluble

Solubilidad (otra):

Coeficiente de reparto (n-octanol/agua):

Temperatura de autoignición:

No hay datos disponibles.

No hay datos disponibles.

No hay datos disponibles.

No hay datos disponibles.

Viscosidad:

43 mm2/s (40 °C, medido)

OTRA INFORMACIÓN

**VOC:** 1.1 % (Method 24)

9.4 g/I (ASTM E 1868-10)



Sección 10 – Estabilidad y reactividad

**Reactividad:** No reactivo durante uso normal.

Estabilidad Química: El material es estable bajo condiciones normales.

Posibilidad de Reacciones

Peligrosas:

Ningunos en circunstancias normales.

Condiciones que Deben

**Evitarse:** 

Evite el calor o la contaminación.

Materiales Incompatibles: No hay datos disponibles.

Productos de Descomposición

Peligrosos:

La descomposición térmica o la combustión pueden liberar óxido de

carbono u otros gases o vapores tóxicos.

# Sección 11 – Información toxicológica

#### Información sobre posibles vías de exposición

**Ingestión:** Puede ingerirse accidentalmente. La ingestión puede causar irritación y

malestar.

**Inhalación:** La inhalación es la principal vía de exposición. En concentraciones altas,

los vapores, humos o neblinas pueden irritar la nariz, la garganta y las

membranas mucosas.

**Contacto con la Piel:** El contacto prolongado con la piel puede causar rubor e irritación.

**Contacto con los ojos:** El contacto con los ojos es posible y debe evitarse.

Síntomas relacionados a las características físicas, químicas y toxicológicas

**Ingestión:** No hay datos disponibles.

**Inhalación:** No hay datos disponibles.

Contacto con la Piel: No hay datos disponibles.

**Contacto con los ojos:** No hay datos disponibles.

#### Información sobre los efectos toxicológicos

Toxicidad aguda (listar todas las vías de exposición posibles)

Ingestión

**Producto:** No clasificado en cuanto a toxicidad aguda con los datos disponibles.



Contacto dermal

Producto:

No clasificado en cuanto a toxicidad aguda con los datos disponibles.

Inhalación

**Producto:** No clasificado en cuanto a toxicidad aguda con los datos disponibles.

Toxicidad por dosis repetidas

**Producto:** No hay datos disponibles.

Corrosión/Irritación Cutáneas

**Producto:** No hay datos disponibles.

Lesiones Oculares Graves/Irritación Ocular

**Producto:** No hay datos disponibles.

Sensibilización de la Piel o Respiratoria

**Producto:** No hay datos disponibles.

Carcinogenicidad

**Producto:** No hay datos disponibles.

Monografías de IARC sobre la evaluación de los riesgos carcinogénicos para los humanos

No se identificaron componentes carcinogénicos

Programa Nacional de Toxicología de EUA (NTP). Reporte sobre carcinógenos

No se identificaron componentes carcinogénicos

EEUU. OSHA Sustancias específicamente reguladas (29 CFR 1910.1001-1050)

No se identificaron componentes carcinogénicos

Mutagenicidad en Células Germinales

En vitro

**Producto:** No hay datos disponibles.

En vivo

**Producto:** No hay datos disponibles.

Toxicidad para la reproducción

**Producto:** No hay datos disponibles.

Toxicidad Sistémica Específica de Órganos Diana- Exposición Única

**Producto:** No hay datos disponibles.

Toxicidad Sistémica Específica de Órganos Diana- Exposiciones Repetidas

**Producto:** No hay datos disponibles.

Peligro por Aspiración

**Producto:** No hay datos disponibles.

Otros síntomas: No hay datos disponibles.



	Sección 12 –Información ecológica
Información general:	Este producto no ha sido evaluado para la toxicidad ecológica u otros efectos ambientales.
	Sección 13 – Consideraciones relativas a la eliminación
Instrucciones para la eliminación:	Las actividades de descarga, tratamiento o eliminación pueden estar sujetos a leyes nacionales, estatales o locales. Elimine el residuo en una instalación adecuada de tratamiento y eliminación de acuerdo con las leye y reglamentos correspondientes y características del producto en el momento de la eliminación. Es responsabilidad del usuario del producto o propietario para determinar en el momento de la disposición, que las regulaciones de residuos debe ser aplicado.
Envases Contaminados:	Los contenedores vacíos deben ser llevados a un sitio de manejo aprobac para desechos, para el reciclado o eliminación.
	Sección 14 – Información de transporte
DOT No reglamentado.	
IMDG No reglamentado.	
IATA No reglamentado.	
	Sección 15 – Información sobre reglamentos

#### Regiamentos Federales de EE.UU

# EEUU. OSHA Sustancias específicamente reguladas (29 CFR 1910.1001-1050)

No están presentes, o no están presentes en lascantidades reguladas.

Ley de Enmiendas y Reautorización del Superfondo de 1986 (SARA)

# Categorías de peligro

Este producto está clasificado como no peligroso según la norma OSHA 29CFR 1910.1200 (HazCom 2012)

# SARA 313 (Reporte TRI, Acerca del Inventario de Liberación de Sustancias Tóxicas)

No están presentes, o no están presentes en lascantidades reguladas.



#### Regulaciones de un Estado de EUA

#### Proposición 65 del Estado de California, EUA

No hay presencia de ningún ingrediente reguladopor CA Prop 65.

# Sección 16 – Información adicional

Preparado por: Ridge Tool Company (OPSTD 6-101)

Fecha de emisión: 2 de mayo de 2018 Fecha de la última revisión: 8 de mars de 2017

RIDGE TOOL CONSIDERA QUE TODAS LAS DECLARACIONES, INFORMACIÓN TÉCNICA Y RECOMENDACIONES EN EL PRESENTE DOCUMENTO SON CONFIABLES, PERO SE PRESENTAN SIN GARANTÍA ALGUNA, SEA EXPRESA O IMPLÍCITA, Y NO ASUMIMOS RESPONSABILIDAD ALGUNA POR PÉRDIDAS, DAÑOS O GASTOS, DIRECTOS O CONSECUENTES, QUE SURJAN DE SU USO.



# **SAFETY DATA SHEET**

Section 1 – Product & Company Identification		
Product Name: Product Catalog No:	RIDGID Nu-Clear Thread Cutting Oil 41565, 70835, 41575, 41585, 42513	
Recommended Use:	Thread Cutting	
Company Name	Ridge Tool Company 400 Clark Street Elyria, Ohio 44035-6001 1-800-519-3456 (USA) (8:00 am – 5:00 pm EST, M-F) call 9-1-1 or local emergency number www.RIDGID.com	
Issue Date:	May 29, 2015	
Section	on 2 – Hazards Identification	
This product is classified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012) and Canada's Hazardous Products Regulations (WHMIS 2015).		
GHS Label Elements: Not applic	able	
Section 3 – Com	position / Information On Ingredients	
Component: Mineral Oil Vegetable Oil	CAS # % By Weight Confidential 40-75% Confidential 1-5%	
This product does not contain	silicone or chlorinated additives.	
Specific chemical identities and/or exact percenta	ges have been withheld as trade secrets.	
Seci	tion 4 – First Aid Measures	
INGESTION: Rinse mouth thoroughly. C NOT induce vomiting.	Call a Poison Center or doctor if you feel unwell. Do	

# INHALATION:

Move to fresh air. Call a Poison Center or doctor if you feel unwell.



#### SKIN CONTACT:

Remove contaminated/saturated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention.

#### **EYE CONTACT:**

Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.

# MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED Symptoms:

No data available.

# INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treatment:

Get medical attention as appropriate or if symptoms persist

# Section 5 – Fire Fighting Measures

#### **GENERAL FIRE HAZARDS:**

No unusual fire or explosion hazards noted.

# SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA

Suitable extinguishing media:

No data available.

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

# SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Heat may cause the containers to pressurize and possibly rupture. During fire, gases hazardous to health may be formed.

# SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS Special firefighting procedures:

No data available.

Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment appropriate for Industrial fires.



Product Name: R	The True of this ear of thing on
Section 6 – A	ccidental Release Measures

# PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See Section 8 of the SDS for Personal Protective Equipment. Do not handle damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation.

# METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.

#### **ENVIRONMENTAL PRECAUTIONS:**

Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so and protect against releases into the environment. Remediate as appropriate.

# PRECAUTIONS FOR SAFE HANDLING:

Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container.

# CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials.

#### SHELF LIFE:

720 days



Product Name:	RIDGID Nu-Clear Thread Cutting Oil	
Section 9 Exposure Controls / Personal Protection		

# Section 8 – Exposure Controls / Personal Protection

#### **EXPOSURE LIMITS:**

Chemical name	type	Exposure Limit Values	Source
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Vegetable oil - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Vegetable oil - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

#### PROTECTIVE MEASURES:

Use personal protective equipment as required.

# **RESPIRATORY PROTECTION:**

In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.

# **EYE PROTECTION:**

Wear safety glasses with side shields (or goggles).

# SKIN AND BODY PROTECTION:

Wear protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

# **HYGIENE MEASURES:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. Discard contaminated footwear that cannot be cleaned. Avoid contact with skin, eyes, and clothing.



# **Section 9 – Physical And Chemical Properties**

**Appearance** 

Physical State Liquid

Form No data available

Color Yellow

Odor Mild petroleum

Odor Threshold No data available

pH No data available

Melting point/freezing point

No data available

No data available

No data available

Flash point 196 °C (385 °F) Evaporation rate No data available

Flammability (solid, gas)

No data available

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%)

Flammability limit - lower (%)

Explosive limit – upper (%)

No data available

Vapor pressure No data available Vapor density No data available

Relative density 0.878

Solubility(ies)

Solubility in water Insoluble

Solubility (other)

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Decomposition temperature

No data available

No data available

No data available

Viscosity 43 mm<sup>2</sup>/s (40 °C, measured)

VOC 9.4 q/l



Product Name:	RIDGID Nu-Clear Thread Cutting Oil
Continu	IO Ctability And Dearthrity

# Section 10 – Stability And Reactivity

#### **REACTIVITY:**

Not reactive during normal use.

#### CHEMICAL STABILITY:

No data available.

#### POSSIBILITY OF HAZARDOUS REACTIONS:

None under normal conditions.

# CONDITIONS TO AVOID:

Avoid heat or contamination.

#### **INCOMPATIBLE MATERIALS:**

No data available.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Contains a component which may release flammable substances, including trimethylpentene, by distillation in systems with solvent recovery. This may lead to accumulation in the solvent circuit.

# Section 11 – Toxicological Information

# INFORMATION ON LIKELY ROUTES OF EXPOSURE

Ingestion:

May be ingested by accident. Ingestion may cause irritation and malaise.

#### Inhalation:

Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

# Skin Contact:

Prolonged skin contact may cause redness and irritation.

# Eye contact:

Eye contact is possible and should be avoided.



# SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Ingestion:

No data available.

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

# INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity

Oral Product:

ATEmix (): 2000 - 5000 mg/kg

**Dermal Product:** 

ATEmix (): 2000 - 5000 mg/kg

Inhalation Product:

Not classified for acute toxicity based on available data.

Repeated dose toxicity Product:

No data available.

Skin Corrosion/Irritation Product:

No data available.

Serious Eye Damage/Eye Irritation Product:

No data available.

Respiratory or Skin Sensitization Product:

No data available.

Carcinogenicity Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product:

No data available.

In vivo Product:

No data available.



Reproductive toxicity Product:

No data available.

Specific Target Organ Toxicity - Single Exposure Product:

No data available.

Specific Target Organ Toxicity - Repeated Exposure Product:

No data available.

**Aspiration Hazard Product:** 

No data available.

Other effects:

No data available

# Section 12 – Ecological Information

#### **GENERAL INFORMATION:**

This product has not been evaluated for ecological toxicity or other environmental effects.

# Section 13 – Disposal Consideration

# **DISPOSAL INSTRUCTIONS:**

Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.

#### CONTAMINATED PACKAGING:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14 – Transportation Information	

This material is not subject to transport regulations.



# **Section 15 – Regulatory Information**

#### **US FEDERAL REGULATIONS**

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories - None
SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

# **US STATE REGULATIONS**

US. California Proposition 65

No component is regulated by CA Prop 65.

# Section 16 – Other Information

Prepared by:..... Ridge Tool Company

Issue Date: . . . . . . . . . May 29, 2015 Last Revision Date: . . . . . . May 29, 2015

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#### **MATERIAL SAFETY DATA SHEET**

# **Section 1 – Product & Company Identification**

Product Name.....: RIDGID Nu-Clear Thread Cutting Oil

Elyria, Ohio 44036-2023

Emergency Telephone ...........: 1-440-323-5581 (USA) (24 Hours)

Issue Date ...... January 5, 2006

# Section 2 – Hazards Identification

# **EMERGENCY OVERVIEW:**

This product is a liquid that is insoluble in water. Direct eye contact may cause minor, short term irritation. Short term skin exposure is not expected to be irritating. Inhalation and ingestion are not anticipated routes of exposure during normal conditions of use.

# POTENTIAL HEALTH EFFECTS AND SYMPTOMS FROM SHORT TERM / ACUTE EXPOSURE:

# • Eye

This product is not expected to cause eye irritation under normal conditions of use. Symptoms of slight eye irritation may result when direct contact occurs, or when exposed to high mist levels in poorly ventilated areas.

#### Skin

Short term skin contact is not expected to cause skin irritation. Prolonged or repeated direct exposure to the skin may result in symptoms of irritation and redness. In severe cases, prolonged or repeated contact may result in dermatitis accompanied by symptoms of irritation, itching, dryness, cracking and/or inflammation.



#### Inhalation:

This product has low volatility and so is not expected to cause respiratory tract irritation during normal conditions of use. Exposure to high mist levels in poorly ventilated areas may cause upper respiratory tract irritation and difficulty breathing.

Ingestion:

Ingestion may cause slight stomach irritation and discomfort.

Potential Chronic Health Effects

No further data known.

Medical Conditions Aggravated By Exposure:

No further data known.

Carcinogenicity:

This product is not listed as a known or suspected carcinogen by IARC, OSHA or the NTP.

# Section 3 – Composition / Information On Ingredients

Components listed in this section may contribute to the potential hazards associated with exposure to the concentrate. The product may contain additional non-hazardous or trade secret components.

Component:CAS #% By WeightMineral Oil64742-54-7> 95Sulfur Additive PackageMixture< 5</td>

# **CARCINOGENIC COMPONENTS:**

This product contains no carcinogens.



Sec	tion 4 – First Aid Measures	
Product Name:	RIDGID Nu-Clear Thread Cu	tting Oil

#### **EYE CONTACT:**

Upon direct eye contact, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. If irritation is due to exposure to mist or vapors, remove the individual to fresh air. If irritation persists, flush the eyes with clean water until the irritation subsides. If symptoms persist, contact a physician.

#### SKIN CONTACT:

Remove product from the skin by washing with a mild soap and water. Contaminated clothing should be removed to prevent prolonged exposure. If symptoms of exposure persist, contact a physician.

#### INHALATION:

Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove the employee to fresh air. Contact a physician or other medical professional if irritation or distress persists.

#### **INGESTION:**

If small amounts are ingested, first aid measures are not likely to be necessary. If larger amounts are ingested or if symptoms of ingestion occur, dilute stomach contents with two glasses of water or milk. (NOTE: Do NOT give anything by mouth to an unconscious person.) Do not induce vomiting without medical supervision. If vomiting occurs spontaneously, keep airway clear. If symptoms of ingestion persist, seek medical attention.

#### NOTE TO PHYSICIANS:

No further data known.

Section 5 – Fire Fighting Measures	

#### FIRE AND EXPLOSIVE PROPERTIES:

Flammability Limits ...... LEL - N/A

UEL - N/A



#### **EXTINGUISH MEDIA:**

In accordance with NFPA guidance, dry chemical, foam or CO2 fire extinguishers are all acceptable. Note that while water fog extinguishers are also acceptable, do NOT apply a direct stream of water onto burning product because it may cause spreading and increase fire intensity.

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

No further data known.

#### FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

Emergency responders in the danger area should wear bunker gear and selfcontained breathing apparatus for fires beyond the incipient stage. See Section 8 of the MSDS for other PPE to be worn as conditions warrant.

# Section 6 – Accidental Release Measures

#### PERSONAL PRECAUTIONS:

Use personal protection recommended in Section 8.

# **ENVIRONMENTAL:**

This material is a water pollutant. Do not let spilled or leaking material enter waterways.

#### **CLEAN-UP MEASURES:**

Important: As with any spill or leak, before responding, ensure that you are familiar with the potential hazards and recommendations of the MSDS. Appropriate personal protective equipment must be worn.

If possible, safely contain the spill with dikes or other spill response equipment appropriate for petroleum or organic material releases. Take measures to prevent spreading of product. Note that while product will ignite, it will not readily burn. However, as a precaution, eliminate ignition sources. Prevent from entering sewers or waterways. Large volumes may be transferred to an appropriate container for proper disposal. Small volumes or residues may be soaked up with absorbents. Spill response materials should be collected for proper disposal.



Product Name:	RIDGID Nu-Clear Thread Cutting Oil
Secti	on 7 – Handling And Storage
HANDLING:	

As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Open containers slowly to relieve any pressure. Follow all other standard industrial hygiene practices.

Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty drums and containers. Keep containers closed when not in use.

Product residue in empty containers is combustible but will not readily burn. Note, however, that excessive heating or cutting of empty containers may create an ignition source sufficient to start a fire and, in extreme cases, cause an explosion.

#### STORAGE:

Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use.

#### SPECIAL COMMENTS:

Sulfur Additive Package

No further data known.

Section 8 – Exposure Controls / Personal Protection			
EXPOSURE GUIDELINE	ES:		
Component			
Mineral Oil	ACGIH TLV: ACGIH STEL: OSHA PEL:	5 mg / m3 (as mist) 10 mg / m3 (as mist) 5 mg / m3 (as mist	

No information



#### **ENGINEERING CONTROLS:**

Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels. Ventilation should, at a minimum, prevent airborne concentrations from exceeding any exposure limits.

The user may wish to refer to 29 CFR 1910.1000(d) (2) and the ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

#### PERSONAL PROTECTIVE EQUIPMENT:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

# Eye Protection

Wear eye protection appropriate to prevent eye exposure. Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full face shield is recommended.

#### Skin Protection

Gloves are not normally needed during normal conditions of use. If health effects are experienced, oil or chemical resistant gloves such as butyl or nitrile are recommended.

Where splashing or soaking is likely, wear oil or chemical resistant clothing to prevent exposure.



# Respiratory Protection

A respirator may be worn to reduce exposure to vapors, dust or mist. Select a NIOSH/MSHA approved respirator appropriate for the type and physical character of the airborne material. A self-contained breathing apparatus is recommended in all situations where airborne contaminant concentration has not been confirmed to be below safe levels. Respirator use should comply with the OSHA Respirator Protection Standard found in 29 CFR 1910.134.

General Hygiene Considerations

Wash thoroughly after handling.

# **Section 9 – Physical And Chemical Properties**

Physical Appearance:....: Clear Yellow Odor. ..... Mild Petroleum

Physical State....: Liquid
Water Solubility...: Insoluble
Specific Gravity...: .878

# Section 10 – Stability And Reactivity

#### STABILITY:

This product is stable.

#### CONDITIONS TO AVOID:

Avoid contact with incompatible materials and exposure to extreme temperatures.

#### **INCOMPATIBLE MATERIALS:**

This product is incompatible with strong oxidizing agents.



# **DECOMPOSITION PRODUCTS MAY INCLUDE:**

Thermal decomposition products are dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulates and gasses may evolve when the material burns. Combustion by-products may include:

oxides of carbon

oxides of sulfur

incompletely burned hydrocarbons as fumes and smoke

# POSSIBILITY OF HAZARDOUS REACTIONS:

This product is not expected to polymerize

# Section 11 – Toxicological Information

#### **EYE EFFECTS:**

No further toxicological data known.

#### SKIN EFFECTS:

No further toxicological data known.

# **ORAL EFFECTS:**

No further toxicological data known.

#### **INHALATION EFFECTS:**

No further toxicological data known.

#### OTHER:

No further toxicological data known.



Product Name: RIDGID Nu-Clear Thread Cutting Oil
Section 12 – Ecological Information
ECOTOXICOLOGICAL INFORMATION:
This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.
ENVIRONMENTAL FATE:
The degree of biodegradability and persistence of this product has not been determined.
Section 13 – Disposal Consideration
WASTE DISPOSAL:
Ensure that collection, transport, treatment and disposal of waste product and containers complies with all applicable laws and regulations. Note that use, mixture, processing or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or
owner to determine at the time of disposal whether the product is regulated as a hazardous waste.
owner to determine at the time of disposal whether the product is regulated as a

Not DOT regulated.



Section 15 – Regulatory Information	

#### FEDERAL REGULATIONS:

# SARA 313:

This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### **CLEAN WATER ACT:**

This product contains mineral oil and is subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

#### CERCLA REPORTABLE QUANTITY:

Any components listed below have been assigned a reportable quantity (RQ) by the Federal EPA. Releases of the product into the environment that exceed the RQ for a particular component must be reported to the National Response Center at 1-800-424-8802.

None to report

#### TOXIC SUBSTANCE CONTROL ACT:

The components of this product are listed on the TSCA Inventory.

#### **OZONE DEPLETING SUBSTANCES:**

This product contains no ozone depleting substances as defined by the Clean Air Act.

#### HAZARDOUS AIR POLLUTANTS:

Any components listed below are defined by the Federal EPA as hazardous air pollutants:

None to report



# STATE REGULATIONS

This product contains mineral oil, and as used, may be regulated by state used oil regulations. Check with the appropriate state agency to determine whether such a regulation exists.

# **CANADA**

WHMIS Classification: None

DSL:

The components of this product are listed on DSL Inventory.

# **Section 16 – Other Information**

#### HMIS RATING:

Health Flammability Reactivity PPE 1 1 0 X

Prepared by:.... Ridge Tool Company

Issue Date: . . . . . . . January 5, 2006 Last Revision Date: . . . . . May, 2004

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#### SAFETY DATA SHEET

# Section 1 – Product & Company Identification

Product Name:

RIDGID Nu-Clear Thread Cutting Oil (United States)

Product Catalog No.:

11461, 11481, 41575, 41585, 42513, 70835

Recommended Use:

**Thread Cutting** 

Restrictions on Use: Industrial use only

Company Information:

North America

Ridge Tool Company 400 Clark Street Elyria, Ohio 44035-6001 1-800-519-3456 (8:00 am – 5:00 pm EST, M-F) Emergency Telephone

call 9-1-1 or local emergency number

www.RIDGID.com

1

<u>Australia</u>

Ridge Tool Australia 127 Metrolink Circuit Campbellfield, VIC 3061

1-800-743-443

(8:30 am - 5:00 pm AEST, M-F)

**Emergency Telephone** 

call 000 or local emergency number

www.RIDGID.com.au

Issue Date: May 2, 2018

Revision: K

211



	Section 2 – Hazaı	ds Identifica	ition	
Hazard Classification				
	This product is clas (HazCom 2012)	sified as not ha	zardous per US OSHA 29CFR 1910.1200	
Label Elements				
Hazard Symbol:	No symbol			
Signal Word:	No signal word.	No signal word.		
Hazard Statement:	Not applicable			
Precautionary Statements	Not applicable			
Other hazards which do not result in GHS classification:	None.			
Section 3	3 – Composition / Ir	formation O	n Ingredients	
General information:	This product does	not contain silico	one or chlorinated additives.	
Hazardous Component(s):				
Chemical name	CA	S-No.	Concentration	
Mineral oil	Coi	nfidential	20 - <50%	
Paraffin oils	Coi	nfidential	20 - <50%	
Vegetable oil	Coi	nfidential	1 - <5%	

Specific chemical identities and/or exact percentages have been withheld as trade secrets.



**Section 4 – First Aid Measures** 

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

Do NOT induce vomiting.

Inhalation: Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap

and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Continue to rinse for at least 15 minutes.

Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** Get medical attention if symptoms occur.

**Section 5 – Fire Fighting Measures** 

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or regular foam. Use fireextinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Heat may cause the containers to explode. During fire, gases hazardous to

health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.



Section	on 6 - Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation.	
Methods and material for containment and cleaning up:	Absorb with sand or other inert absorbent. Stop the flow of material, if this without risk.	
Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.	
S	ection 7 – Handling And Storage	
Precautions for safe handling:	Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container.	
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials. Shelf Life: 720 Days	



Section 8 – Exposure Controls / Personal Protection	
Exposure Controller Forcement Forcement	

# **Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017)
Mineral oil - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Paraffin oils - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Paraffin oils - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Paraffin oils - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Vegetable oil - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Vegetable oil - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

**Protective Measures:** Use personal protective equipment as required.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

supervisor on the company's respiratory protection standards.

**Eye Protection:** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection:** Wear protective clothing appropriate for the risk of exposure. Be aware of other

hazards such as rotating parts. Contact health and safety professional or

manufacturer for specific information.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear

that cannot be cleaned.

Section 9 – Physical And Chemical Properties	

#### **Appearance**

Physical state: Liquid

Form: No data available.

Color: Yellow

Odor:

Odor threshold:

PH:

No data available.

No data available.

No data available.

No data available.



Initial boiling point and boiling range: No data available. Flash Point: 196.11 °C (385.00 °F) **Evaporation rate:** No data available. Flammability (solid, gas): No data available. Upper/lower limit on flammability or explosive limits Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available. Vapor pressure: No data available. Vapor density: No data available. Relative density: 0.878 Solubility(ies) Solubility in water: Insoluble No data available. Solubility (other): Partition coefficient (n-octanol/water): No data available. No data available. **Auto-ignition temperature: Decomposition temperature:** No data available. Viscosity: 43 mm2/s (40 °C, Measured) Other information VOC: 1.1 % (Method 24) 9.4 g/I (ASTM E 1868-10) Section 10 - Stability And Reactivity Reactivity: Not reactive during normal use. **Chemical Stability:** Material is stable under normal conditions. Possibility of hazardous None under normal conditions. reactions: Conditions to avoid: Avoid heat or contamination. **Incompatible Materials:** No data available. **Hazardous Decomposition** Thermal decomposition or combustion may liberate carbon oxides and Products: other toxic gases or vapors. **Section 11 – Toxicological Information** 

Information on likely routes of exposure

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.



**Inhalation:** Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** Prolonged skin contact may cause redness and irritation.

**Eye contact:** Eye contact is possible and should be avoided.

Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.

**Dermal** 

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified



### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No carcinogenic components identified

Germ	Cell	Mutage	enicity

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

Section 12 – Ecological Information

General information: This product has not been evaluated for ecological toxicity or other

environmental effects.

Section 13 – Disposal Consideration

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws. Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must

be applied.

**Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for

recycling or disposal.



	Section 14 – Transportation Information
DOT	
Not regulated.	
IMDG Not regulated.	
ATA Not regulated.	
	Section 15 – Regulatory Information
US Federal Regulation	S
<u>-</u>	ly Regulated Substances (29 CFR 1910.1001-1050) ne present in regulated quantities.
Superfund Amendme	ents and Reauthorization Act of 1986 (SARA)
Hazard categorie This product is cla	s ssified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012)
SARA 313 (TRI R None pres	eporting) sent or none present in regulated quantities.

### **US State Regulations**

### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.



Section	16 –	Other	Information
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Prepared by:..... Ridge Tool Company (Operating Standard 6-101)

Issue Date: . . . . . . . . . . . . . . . May 2, 2018 Last Revision Date: . . . . . March 8, 2017

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#### SAFETY DATA SHEET

### Section 1 – Product & Company Identification

Product Name:

RIDGID Nu-Clear Thread Cutting Oil (United States)

Product Catalog No.:

11461, 11481, 41575, 41585, 42513, 70835

Recommended Use:

**Thread Cutting** 

Restrictions on Use: Industrial use only

Company Information:

North America

Ridge Tool Company 400 Clark Street Elyria, Ohio 44035-6001 1-800-519-3456 (8:00 am – 5:00 pm EST, M-F) Emergency Telephone

call 9-1-1 or local emergency number

www.RIDGID.com

<u>Australia</u>

Ridge Tool Australia 127 Metrolink Circuit Campbellfield, VIC 3061

1-800-743-443

(8:30 am - 5:00 pm AEST, M-F)

**Emergency Telephone** 

call 000 or local emergency number

www.RIDGID.com.au

Issue Date: May 2, 2018

Revision: K



	Section 2 – Hazards Identification	ation	
Hazard Classification	This product is classified as not hat (HazCom 2012)	azardous per US OSHA 29CFR 1910.1200	
Label Elements			
Hazard Symbol:	No symbol		
Signal Word:	No signal word.		
Hazard Statement:	Not applicable		
Precautionary Statements	Not applicable		
Other hazards which do not result in GHS classification:	None.		
Section 3	<ul><li>Composition / Information C</li></ul>	On Ingredients	
General information:	This product does not contain silic	cone or chlorinated additives.	
Hazardous Component(s):			
Chemical name	CAS-No.	Concentration	
Mineral oil	Confidential	20 - <50%	
Paraffin oils	Confidential	20 - <50%	
Vegetable oil	Confidential	1 - <5%	

Specific chemical identities and/or exact percentages have been withheld as trade secrets.



**Section 4 – First Aid Measures** 

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

Do NOT induce vomiting.

Inhalation: Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap

and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Continue to rinse for at least 15 minutes.

Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** Get medical attention if symptoms occur.

**Section 5 – Fire Fighting Measures** 

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or regular foam. Use fireextinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Heat may cause the containers to explode. During fire, gases hazardous to

health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.



including any incompatibilities:

### Product Name: RIDGID Nu-Clear Thread Cutting Oil (United States)

**Section 6 – Accidental Release Measures** Personal precautions, See Section 8 of the SDS for Personal Protective Equipment. Do not touch protective equipment and damaged containers or spilled material unless wearing appropriate emergency procedures: protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation. Methods and material for Absorb with sand or other inert absorbent. Stop the flow of material, if this is containment and cleaning without risk. up: **Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Section 7 – Handling And Storage Precautions for safe handling: Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. Conditions for safe storage, Store in original tightly closed container. Avoid contact with oxidizing

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agents. Store away from incompatible materials. Shelf Life: 720 Days



## Section 8 – Exposure Controls / Personal Protection

### **Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017)
Mineral oil - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Paraffin oils - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Paraffin oils - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Paraffin oils - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Vegetable oil - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Vegetable oil - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

**Protective Measures:** Use personal protective equipment as required.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

supervisor on the company's respiratory protection standards.

**Eye Protection:** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection:** Wear protective clothing appropriate for the risk of exposure. Be aware of other

hazards such as rotating parts. Contact health and safety professional or

manufacturer for specific information.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear

that cannot be cleaned.

### Section 9 – Physical And Chemical Properties

#### **Appearance**

Physical state: Liquid

Form: No data available.

Color: Yellow

Odor:

Odor threshold:

PH:

No data available.

No data available.

No data available.

No data available.



Initial boiling point and boiling range: No data available. Flash Point: 196.11 °C (385.00 °F) **Evaporation rate:** No data available. Flammability (solid, gas): No data available. Upper/lower limit on flammability or explosive limits Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available. Vapor pressure: No data available. No data available. Vapor density: Relative density: 0.878 Solubility(ies) Solubility in water: Insoluble No data available. Solubility (other): Partition coefficient (n-octanol/water): No data available. No data available. **Auto-ignition temperature: Decomposition temperature:** No data available. Viscosity: 43 mm2/s (40 °C, Measured) Other information VOC: 1.1 % (Method 24) 9.4 g/I (ASTM E 1868-10) Section 10 - Stability And Reactivity Reactivity: Not reactive during normal use. **Chemical Stability:** Material is stable under normal conditions. Possibility of hazardous None under normal conditions. reactions: Conditions to avoid: Avoid heat or contamination. **Incompatible Materials:** No data available. **Hazardous Decomposition** Thermal decomposition or combustion may liberate carbon oxides and Products: other toxic gases or vapors. **Section 11 – Toxicological Information** 

Section 11 - Toxicological informatio

Information on likely routes of exposure

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.



**Inhalation:** Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** Prolonged skin contact may cause redness and irritation.

**Eye contact:** Eye contact is possible and should be avoided.

Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.

**Dermal** 

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified



### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No carcinogenic components identified

<b>Germ Cell Mutagenicity</b>	Germ	Cell	Mutage	enicity
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In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

Section 12 – Ecological Information

General information: This product has not been evaluated for ecological toxicity or other

environmental effects.

Section 13 – Disposal Consideration

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws. Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must

be applied.

**Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for

recycling or disposal.



	Section 14 – Transportation Information
DOT	
Not regulated.	
IMDG Not regulated.	
ATA Not regulated.	
	Section 15 – Regulatory Information
	Section 15 – Regulatory information
US Federal Regulation	ons
	cally Regulated Substances (29 CFR 1910.1001-1050) sone present in regulated quantities.
Superfund Amend	ments and Reauthorization Act of 1986 (SARA)
Hazard catego	ries classified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012)
SARA 313 (TRI	
None p	resent or none present in regulated quantities.

## US. California Proposition 65

**US State Regulations** 

No ingredient regulated by CA Prop 65 present.



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### SAFETY DATA SHEET

### K00779007

### **Section 1. Identification**

Product name : RUST TOUGH® Rust Preventive Enamel (Aerosol)

Semi-Gloss Black

Product code : K00779007

Other means of : Not available.

identification

Product type : Aerosol.

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

Paint or paint related material.

**Manufacturer**: Krylon Products Group

101 Prospect Avenue NW Cleveland, OH 44115

Emergency telephone number of the company

: US/Canada: (800) 424-9300

Mexico: CHEMTREC Mexico 01-800-681-9531. Available 24 hours and 365 days per

year

Product Information Telephone Number

: US/Canada: (800) 247-3266

Mexico: Not Available

Regulatory Information Telephone Number

: US/Canada: (216) 566-2902

Mexico: Not Available

Transportation Emergency

: US/Canada: (800) 424-9300

**Telephone Number** 

Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE AEROSOLS - Category 1

GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 1

ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity:

32.5%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity:

36.5%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation

toxicity: 36.5%

**GHS** label elements

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### Section 2. Hazards identification

### **Hazard pictograms**









### Signal word

Hazard statements

#### : Danger

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes serious eve irritation.

Causes skin irritation.

May cause an allergic skin reaction. Suspected of causing cancer.

May be fatal if swallowed and enters airways.

May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure. (lungs)

#### **Precautionary statements**

#### **Prevention**

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Pressurized container: Do not pierce or burn, even after use.

#### Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### **Storage**

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

#### **Disposal**

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Supplemental label elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.

Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

## Hazards not otherwise classified

: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

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### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### **CAS** number/other identifiers

Ingredient name	% by weight	CAS number
Propane	≥10 - ≤25	74-98-6
Acetone	≥10 - ≤25	67-64-1
Lt. Aliphatic Hydrocarbon Solvent	≥10 - ≤25	64742-89-8
n-Butyl Acetate	≥10 - ≤25	123-86-4
Butane	≤10	106-97-8
Ethyl 3-Ethoxypropionate	≤5	763-69-9
Xylene, mixed isomers	≤3	1330-20-7
Barium Sulfate	≤3	7727-43-7
Talc	≤3	14807-96-6
Carbon Black	≤3	1333-86-4
Ethylbenzene	<1	100-41-4
Unsaturated Fatty Acids	≤0.3	85711-46-2
Hydrotreated Heavy Petroleum Naphtha	≤0.3	64742-48-9

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

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

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

### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

K00779007

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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### Section 4. First aid measures

#### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and Ingestion

enters airways.

#### Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

> irritation redness

: Adverse symptoms may include the following: Ingestion

nausea or vomiting

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

#### Specific hazards arising from the chemical

: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

: 11/5/2019

Date of issue/Date of revision : 11/27/2019 Date of previous issue K00779007

RUST TOUGH® Rust Preventive Enamel (Aerosol)

Semi-Gloss Black

Version: 17 SHW-85-NA-GHS-US

### Section 5. Fire-fighting measures

## Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

## Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

## Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### **Precautions for safe handling**

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS#	Exposure limits
Propane	74-98-6	NIOSH REL (United States, 10/2016).  TWA: 1000 ppm 10 hours.  TWA: 1800 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 1000 ppm 8 hours.  TWA: 1800 mg/m³ 8 hours.  ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
Acetone	67-64-1	ACGIH TLV (United States, 3/2019).  TWA: 250 ppm 8 hours.  STEL: 500 ppm 15 minutes.  NIOSH REL (United States, 10/2016).  TWA: 250 ppm 10 hours.  TWA: 590 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 1000 ppm 8 hours.  TWA: 2400 mg/m³ 8 hours.
Lt. Aliphatic Hydrocarbon Solvent n-Butyl Acetate	64742-89-8 123-86-4	None.  NIOSH REL (United States, 10/2016).  TWA: 150 ppm 10 hours.  TWA: 710 mg/m³ 10 hours.  STEL: 200 ppm 15 minutes.  STEL: 950 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 150 ppm 8 hours.  TWA: 710 mg/m³ 8 hours.

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		ACGIH TLV (United States, 3/2019). STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
Butane	106-97-8	NIOSH REL (United States, 10/2016).  TWA: 800 ppm 10 hours.  TWA: 1900 mg/m³ 10 hours.  ACGIH TLV (United States, 3/2019).  Explosive potential.  STEL: 1000 ppm 15 minutes.
Ethyl 3-Ethoxypropionate Xylene, mixed isomers	763-69-9 1330-20-7	None.  ACGIH TLV (United States, 3/2019).  TWA: 100 ppm 8 hours.  TWA: 434 mg/m³ 8 hours.  STEL: 150 ppm 15 minutes.  STEL: 651 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.
Barium Sulfate	7727-43-7	ACGIH TLV (United States, 3/2019).  TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction  NIOSH REL (United States, 10/2016).  TWA: 5 mg/m³ 10 hours. Form: Respirable fraction  TWA: 10 mg/m³ 10 hours. Form: Total  OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust
Talc	14807-96-6	NIOSH REL (United States, 10/2016).  TWA: 2 mg/m³ 10 hours. Form: Respirable fraction  ACGIH TLV (United States, 3/2019).  TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
Carbon Black	1333-86-4	NIOSH REL (United States, 10/2016).  TWA: 3.5 mg/m³ 10 hours.  TWA: 0.1 mg of PAHs/cm³ 10 hours.  ACGIH TLV (United States, 3/2019).  TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction  OSHA PEL (United States, 5/2018).  TWA: 3.5 mg/m³ 8 hours.
Ethylbenzene	100-41-4	ACGIH TLV (United States, 3/2019).  TWA: 20 ppm 8 hours.  NIOSH REL (United States, 10/2016).  TWA: 100 ppm 10 hours.  TWA: 435 mg/m³ 10 hours.  STEL: 125 ppm 15 minutes.  STEL: 545 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.
Unsaturated Fatty Acids Hydrotreated Heavy Petroleum Naphtha	85711-46-2 64742-48-9	None.

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Occupational exposure limits (Canada)

Ingredient name	CAS#	Exposure limits
Normal propane	74-98-6	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 1000 ppm 8 hours.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 1000 ppm 8 hours.  TWAEV: 1800 mg/m³ 8 hours.  CA Ontario Provincial (Canada, 1/2018).  TWA: 1000 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 1250 ppm 15 minutes.  TWA: 1000 ppm 8 hours.  CA British Columbia Provincial (Canada, 5/2019). Oxygen Depletion [Asphyxiant].  Explosive potential.
Acetone	67-64-1	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 1200 mg/m³ 8 hours.  15 min OEL: 1800 mg/m³ 15 minutes.  8 hrs OEL: 500 ppm 8 hours.  15 min OEL: 750 ppm 15 minutes.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 250 ppm 8 hours.  STEL: 500 ppm 15 minutes.  CA Ontario Provincial (Canada, 1/2018).  TWA: 250 ppm 8 hours.  STEL: 500 ppm 15 minutes.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 500 ppm 8 hours.  TWAEV: 1190 mg/m³ 8 hours.  STEV: 2380 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 750 ppm 15 minutes.  TWA: 500 ppm 8 hours.
Normal butyl acetate	123-86-4	CA Alberta Provincial (Canada, 6/2018).  15 min OEL: 200 ppm 15 minutes.  15 min OEL: 950 mg/m³ 15 minutes.  8 hrs OEL: 150 ppm 8 hours.  8 hrs OEL: 713 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 20 ppm 8 hours.  CA Ontario Provincial (Canada, 1/2018).  TWA: 150 ppm 8 hours.  STEL: 200 ppm 15 minutes.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 150 ppm 8 hours.  TWAEV: 713 mg/m³ 8 hours.  STEV: 200 ppm 15 minutes.  STEV: 950 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 200 ppm 15 minutes.

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Exposure controlorpor		TWA: 150 ppm 8 hours.
Butane	106-97-8	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m³ 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 800 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 5/2019). Explosive potential. STEL: 1000 ppm 15 minutes.
Xylene	1330-20-7	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 5/2019).  TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 1/2014).  TWAEV: 100 ppm 8 hours.  TWAEV: 434 mg/m³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes. CA Ontario Provincial (Canada, 1/2018). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
talc (none asbestiform)	14807-96-6	CA British Columbia Provincial (Canada, 5/2019).  TWA: 2 mg/m³ 8 hours. Form: Respirable TWA: 0.1 f/cc 8 hours.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 3 mg/m³ 8 hours. Form: Respirable dust.  CA Ontario Provincial (Canada, 1/2018).  TWA: 2 mg/m³ 8 hours. Form: Respirable fraction.  TWA: 2 f/cc 8 hours.  CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable particulate  CA Saskatchewan Provincial (Canada, 7/2013).  TWA: 2 mg/m³ 8 hours. Form: respirable fraction
Carbon black	1333-86-4	CA British Columbia Provincial (Canada, 5/2019).
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		TWA: 3 mg/m³ 8 hours. Form: Inhalable CA Ontario Provincial (Canada, 1/2018).  TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction.  CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 3.5 mg/m³ 8 hours.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 3.5 mg/m³ 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 7 mg/m³ 15 minutes.  TWA: 3.5 mg/m³ 8 hours.
Ethylbenzene	100-41-4	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 100 ppm 8 hours.  8 hrs OEL: 434 mg/m³ 8 hours.  15 min OEL: 543 mg/m³ 15 minutes.  15 min OEL: 125 ppm 15 minutes.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 20 ppm 8 hours.  CA Ontario Provincial (Canada, 1/2018).  TWA: 20 ppm 8 hours.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 100 ppm 8 hours.  TWAEV: 434 mg/m³ 8 hours.  STEV: 125 ppm 15 minutes.  STEV: 543 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 125 ppm 15 minutes.  TWA: 100 ppm 8 hours.

### Occupational exposure limits (Mexico)

	CAS#	Exposure limits	
Propane	74-98-6	NOM-010-STPS-2014 (Mexico, 4/2016).	
Acetone	67-64-1	TWA: 1000 ppm 8 hours.  NOM-010-STPS-2014 (Mexico, 4/2016).  TWA: 500 ppm 8 hours.  STEL: 750 ppm 15 minutes.	
n-Butyl Acetate	123-86-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.	
Butane	106-97-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.	
Xylene, mixed isomers	1330-20-7	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.	
Ethylbenzene	100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.	

## Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

#### <u>Appearance</u>

**Physical state** : Liquid.

Color Not available. Odor : Not available. **Odor threshold** : Not available.

pН

**Melting point/freezing point** : Not available. **Boiling point/boiling range** : Not available.

Flash point : Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]

: 5.6 (butyl acetate = 1) **Evaporation rate** 

: Not available. Flammability (solid, gas) Lower and upper explosive : Lower: 0.9% (flammable) limits Upper: 12.8%

Vapor pressure : 101.3 kPa (760 mm Hg) [at 20°C]

Vapor density : 1.55 [Air = 1]

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### Section 9. Physical and chemical properties

**Relative density** : 0.75

**Solubility** : Not available. Partition coefficient: n-: Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

**Viscosity** Kinematic (40°C (104°F)): <0.205 cm<sup>2</sup>/s (<20.5 cSt)

**Molecular weight** Not applicable.

**Aerosol product** 

octanol/water

Type of aerosol : Spray **Heat of combustion** : 28.33 kJ/g

### Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**Chemical stability** : The product is stable.

**Possibility of hazardous** reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

**Incompatible materials** : No specific data.

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

### **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Acetone	LD50 Oral	Rat	5800 mg/kg	-
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
Ethyl 3-Ethoxypropionate	LD50 Oral	Rat	3200 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Carbon Black	LD50 Oral	Rat	>15400 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Hydrotreated Heavy	LC50 Inhalation Vapor	Rat	8500 mg/m <sup>3</sup>	4 hours
Petroleum Naphtha	·			
	LD50 Oral	Rat	>6 g/kg	-

**Irritation/Corrosion** 

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	_	10 UI	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	395 mg	-
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Ethyl 3-Ethoxypropionate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
Talc	Skin - Mild irritant	Human	-	72 hours 300	-
				ug I	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Xylene, mixed isomers	-	3	-
Talc	_	3	-
Carbon Black	_	2B	-
Ethylbenzene	_	2B	-

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

Specific target organ toxicity (single exposure)

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### Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Propane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Acetone	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Lt. Aliphatic Hydrocarbon Solvent	Category 3 Category 3	Not applicable.	Narcotic effects Respiratory tract irritation
n-Butyl Acetate Butane	Category 3 Category 3 Category 3	Not applicable. Not applicable. Not applicable.	Narcotic effects Narcotic effects Respiratory tract irritation
Xylene, mixed isomers	Category 3	Not applicable.	Respiratory tract irritation
Ethylbenzene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Hydrotreated Heavy Petroleum Naphtha	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Propane Acetone Lt. Aliphatic Hydrocarbon Solvent Butane Xylene, mixed isomers Talc	Category 2 Category 2 Category 2 Category 2 Category 2 Category 2 Category 1	Not determined Not determined Not determined Not determined Not determined Inhalation	Not determined Not determined Not determined Not determined Not determined lungs
Ethylbenzene Hydrotreated Heavy Petroleum Naphtha	Category 2 Category 2	Not determined Not determined	Not determined Not determined

### **Aspiration hazard**

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Hydrotreated Heavy Petroleum Naphtha	ASPIRATION HAZARD - Category 1

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

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### Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate

effects

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: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a

severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral Dermal	39563.76 mg/kg 35632.74 mg/kg
Inhalation (gases)	161967.01 ppm

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## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 6900 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Barium Sulfate	Acute EC50 634 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 32 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Ethylbenzene	Acute EC50 4600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetone	-	-	Readily
n-Butyl Acetate	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Ethylbenzene	-	-	Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Xylene, mixed isomers Hydrotreated Heavy		8.1 to 25.9 10 to 2500	low high
Petroleum Naphtha			

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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### **Section 13. Disposal considerations**

#### **Disposal methods**

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

### **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	ERG No.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).  ERG No.	ERG No.		Emergency schedules F-D, S- U
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Special precautions for user :

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

Proper shipping name Not available. : Not available. Ship type : Not available. **Pollution category** 

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### Section 15. Regulatory information

#### **SARA 313**

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### **International regulations**

International lists :

: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

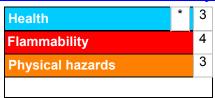
Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

### Section 16. Other information

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



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

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

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

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Key to abbreviations : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group **UN = United Nations** 

Indicates information that has changed from previously issued version.

#### **Notice to reader**

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Date of issue/Date of revision

: 11/27/2019 Date of previous issue : 11/5/2019

Version: 17

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# Material Safety Data Sheet

24 Hour Assistance: 1-847-367-7700 Rust-Oleum Corp. www.rustoleum.com

### Section 1 - Chemical Product / Company Information

Rust-Oleum High Performance Industrial

Revision Date: 04/05/2006 Product Name: **Enamel Aerosol Topcoats (Hard Hat)** 

> V2123838, V2134838, V2147838, V2155838, V2156838, V2167838, V2170838, V2171838, V2174838, V2175838, V2178838, V2179838,

Identification V2183838, V2184838, V2188838, V2124838, V2125838, V2133838, Number: V2137838, V2138838, V2143838,

V2148838, V2163838, V2164838, V2177838, V2187838, V2190838, V2192838, V2196838, 209567

Product Use/Class: Topcoats/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

Preparer: Regulatory Department

### Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Tha	n ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Acetone	67-64-1	30.0	500 PPM	750 PPM	750 PPM	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0	1000 PPM	N.E.	1000 PPM	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Magnesium Silicate	14807-96-6	15.0	10 mg/m3	N.E.	15 mg/m3	N.E.
N-Butyl Acetate	123-86-4	10.0	150 PPM	200 PPM	150 PPM	N.E.
Xylene	1330 -20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
Methyl Ethyl Ketone	78-93-3	10.0	200 PPM	300 PPM	200 PPM	N.E.
Stoddard Solvents	8052 -41 -3	5.0	100 PPM	N.E.	500 PPM	N.E.
Ethylene Glycol Monobutyl Ether	r 111-76-2	5.0	20 PPM	N.E.	50 PPM	N.E.
Toluene	108-88-3	5.0	50 PPM	150 PPM	200 PPM	300 PPM
Ethylbenzene	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.
Aromatic Hydrocarbon	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 PPM	N.E.	N.E.	N.E.
Pigment Black 7	1333 -86-4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Pigment Yellow 17	4531 -49-1	5.0	2 mg/m3	N.E.	5 mg/m3	N.E.
Pigment Violet 32	12225-08-0	1.0	N.E.	N.E.	N.E.	N.E.
Pigment Red 122	980-26-7	1.0	15mg/m3	N.E.	5mg/m3	N.E.

### Section 3 - Hazards Identification

Effects Of Overexposure - Eye Contact: Causes eye irritation.

<sup>\*\*\*</sup> Emergency Overview \*\*\*: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Extremely flammable liquid and vapor. Contents Under Pressure. Harmful if swallowed.

Effects Of Overexposure - Skin Contact: May be harmful if absorbed through skin. Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e,g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to toluene in laboratory animals has been associated with liver abnormalities, kidney, lung and spleen damage. Effects in humans have included liver and cardiac abnormalities. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.

Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists.

Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on

Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

### Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

### Section 5 - Fire Fighting Measures

Flash Point: -156 F LOWER EXPLOSIVE LIMIT: 0.7 % (Setaflash) UPPER EXPLOSIVE LIMIT: 32.5 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID

AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

### Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

### Section 7 - Handling And Storage

Handling: Use only in a well-ventilated area. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling. Wash hands before eating.

Storage: Contents under pressure. Do not expose to heat or store above 120 ° F. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

### Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

### **Section 9 - Physical And Chemical Properties**

Boiling Range: -34 - 900 F Vapor Density: Heavier than Air

Odor: Solvent-like Odor Threshold: ND

Appearance: Liquid Evaporation Rate: Faster than Ether

Solubility in H2O: Slight

Freeze Point: ND Specific Gravity: 0.8660 Vapor Pressure: ND PH: ND

Physical State: Liquid

(See section 16 for abbreviation legend)

# Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

# Section 11 - Toxicological Information

Product LD50: ND Product LC50: ND

 Chemical Name
 LD50
 LC50

 Acetone
 N.D.
 N.D.

 Liquefied Petroleum Gas
 N.D.
 N.D.

 Titanium Dioxide
 >7500 mg/kg (ORAL, RAT)
 N.D.

Magnesium Silicate N.D. TCLo:11mg/m3 inh.

N-Butyl Acetate 13100 mg/kg (ORAL, RAT) 2000 PPM (INH 4 Hr, RAT)

 Xylene
 N.D.
 N.D.

 Methyl Ethyl Ketone
 N.D.
 N.D.

 Stoddard Solvents
 N.D.
 N.D.

Ethylene Glycol Monobutyl Ether 1519 mg/kg (ORAL, MOUSE)700 PPM (INH 7 Hr, RAT)

Toluene N.D. N.D. Ethylbenzene 3500 mg/kg (ORAL, RAT) N.D. Aromatic Hydrocarbon N.D. N.D. N.D.

1,2,4-Trimethylbenzene N.D. 18000 mg/m3 (RAT, 4 HR)

Pigment Black 7 >8000 mg/kg (ORAL, RAT) N.D.
Pigment Yellow 17 N.D. N.D.
Pigment Violet 32 >10000 mg/kg (ORAL, RAT) N.D.
Pigment Red 122 N.D. N.D.

# Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

# Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do

not allow to enter storm drains or sewer systems.

# Section 14 - Transportation Information

DOT Proper Shipping Name: Aerosol Packing Group: --DOT Technical Name: --DOT Hazard Class: 2.1 Resp. Guide Page: 126

DOT UN/NA Number: UN1950

# Section 15 - Regulatory Information

# **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

#### **SARA Section 313:**

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylene Glycol Monobutyl Ether	111-76-2
Toluene	108-88-3
Ethylbenzene	100-41-4
1,2,4-Trimethylbenzene	95-63-6

#### **Toxic Substances Control Act:**

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

# U.S. State Regulations: As follows -

# **New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

Chemical NameCAS NumberAlkyd ResinMIXTURE

# Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

# Chemical Name Alkyd Resin Barium Sulfate Calcium Carbonate Yellow Iron Oxide

CAS Number MIXTURE 7727-43-7 1317-65-3 51274-00-1

# **California Proposition 65:**

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

# **CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

# Section 16 - Other Information

**HMIS Ratings:** 

Health: 2 Flammability: 4 Reactivity: 0 Personal Protection: X

# **VOLATILE ORGANIC COMPOUNDS, g/I:**

# **REASON FOR REVISION:**

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

# SAFETY DATA SHEET: SODIUM GLUCONATE

1. IDENTIFICATION

Product Name: SODIUM GLUCONATE

Synonyms: D-gluconate sodium salt; Sodium 2,3,4,5,6-pentahydroxy-hexanoate; Sodium d-gluconate

Formula and Formula Weight: CH2OH(CHOH)4COONa 218.14

Integra numbers beginning with: \$384.32

Recommended Use: Commercial/industrial use Restrictions on Use: No information available

INTEGRA Chemical Company

1216 6th Ave N Kent WA 98032 Phone: 253-479-7000 24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

### 2. HAZARDS IDENTIFICATION

OSHA Classification:Hazard Category:Hazard Statement:None identifiedNot applicableNot applicable

Hazards Not Otherwise Classified: No information available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

ComponentSynonymsCAS #% WeightSodium gluconateD-gluconate sodium salt; Sodium 2,3,4,5,6-<br/>pentahydroxy-hexanoate; Sodium d-gluconate00527-07-1100

#### 4. FIRST AID MEASURES

Inhalation: Remove person to fresh air.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: Wash with soap and water.

Ingestion: Do not induce vomiting. Rinse mouth. If adverse symptoms develop, seek medical attention.

Additional notes: Symptoms and effects include skin, eye, respriatory, gastrointestinal irritation; nausea, vomiting.

#### 5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable

respiratory protection.

Specific Hazards: As with most organic solids, combustion is possible at elevated temperatures.

Hazardous combustion products: Oxides of carbon. Oxides of sodium.

## 6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear suitable protective equipment. Sweep or

scoop into disposal container in a manner that minimizes dust dispersion.

#### 7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong oxidizers.

Storage and Handling: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and

protect them from physical damage.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

Sodium gluconate None identified

Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate

filter.

Skin/Eye Protective Equipment: Safety glasses.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Apearance: White to cream colored powder

Odor: Pleasant odor Odor Threshold: Not available

pH: 6.8 - 7.2 (10 % aqueous solution)

Melting/Freezing Point: 192-202 °C Initial Boiling Point and Boiling Range: Not available Flash Point: 270 °C

Evaporation Rate:

Flammability:

Not available

Not available

Upper: Not available

Limits (% by volume in air)

Vapor Pressure:

Not available

Not available

Vapor Density:

Relative Density:

Solubility:

Not available

0.9 g/cc

Very soluble in water

Partition Coefficient: n-octanol/water
Auto-Ignition Temperature:

Decomposition Temperature:

Very soluble in wat
Not available
Not available
>210
Viscosity:

Not available

## 10. STABILITY AND REACTIVITY

Reactivity: No information available

Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur

Conditions to Avoid: Excessive dusting, especially in the presence of ignition sources. Direct sun light, moist air and humidity.

Incompatibles: Incompatible with strong oxidizers.

Decomposition Products: Oxides of carbon. Oxides of sodium.

# 11. TOXICOLOGICAL INFORMATION

#### Effects of Over Exposure:

Inhalation: As with most nuisance dusts, inhalation of large quantities, or prolonged inhalation, may irritate the respiratory system.

Skin Contact: No irritation is likely upon brief contact. May be irritating after prolonged or repeated contact.

Eye Contact: Dusts may cause some eye irritation.

Ingestion: Ingestion of large quantities may cause gastrointestinal irritation, nausea and vomiting.

Chronic Effects: Chronic exposure to nuisance dusts may damage the lungs.

Target Organs: None identified
Additional Effects: None identified
Reproductive Effects: None identified
Carcinogenicity: None identified

**Toxicity Data:** 

Sodium gluconate

Sodium gluconate No information available.

## 12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: Terrestrial Toxicity Data:

No information available No information available

Persistence and degradability:
Bioaccumulative potential:
Mobility in soil:
Other adverse effects:
No information available
No information available
No information available

# 13. DISPOSAL CONSIDERATIONS

<u>Disposal Procedures:</u> Dispose of material and containers in accordance with all local, state and federal regulations.

# 14. TRANSPORTATION INFORMATION

This product is not a regulated material for domestic ground transporation.

Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

# 15. REGULATORY INFORMATION

Sodium gluconate is listed in the TSCA inventory.

#### 16. OTHER INFORMATION

OSHA SDS #: 26394 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

The information presented above is offered for informational purposes only. This SDS, and the associated product, is intended for use only by technically qualified persons, and at their own discretion and risk. Since conditions and manner of use are outside the control of Integra Chemical Company, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

\*\*\*\*\* END OF SDS \*\*\*\*\*

# SAFETY DATA SHEET: SODIUM METASILICATE, Pentahydrate

#### 1. IDENTIFICATION

Product Name: SODIUM METASILICATE, Pentahydrate

Synonyms: Sodium meta-silicate pentahydrate; Water glass; Disodium trioxosilicate pentahydrate

Formula and Formula Weight: Na2SiO3 5H2O 212.15

Integra numbers beginning with: \$485.50

Recommended Use: Commercial/industrial use Restrictions on Use: No information available

**INTEGRA Chemical Company** 

1216 6th Ave N Kent WA 98032 Phone: 253-479-7000 24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

#### 2. HAZARDS IDENTIFICATION

 OSHA Classification:
 Hazard Category:
 Hazard Statement:

 Acute Toxicity - Oral
 4
 Harmful if swallowed.

Skin Corrosion/Irritation 1B Causes severe skin burns and eye damage.

Eye Damage/Irritation 1 Causes serious eye damage.

Specific Target Organ Toxicity (single exposure) 3 May cause respiratory irritation.

Signal Word: DANGER





## **Precautionary Statements**

Prevention:

Avoid breathing dust, fume, gas, mist, vapors, spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection, face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Immediately call a poison center, doctor.

Specific treatment (see first aid section on this label)

Wash contaminated clothing before reuse.

Storage

Store locked up in a well ventilated place. Keep container tightly closed.

Disposal

Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	<u>Synonyms</u>	<u>CAS #</u>	% Weight
Sodium metasilicate, pentahydrate	Sodium meta-silicate pentahydrate; Water glass;	10213-79-3	100
	Disodium trioxosilicate pentahydrate		

#### 4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate

medical attention.

Skin Contact: Remove contaminated clothing. Flush skin with plenty of water. Seek medical attention if irritation develops.

Ingestion: Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconscious

person. Seek immediate medical attention.

Additional notes: Symptoms and effects include skin and eye burns or damage; respiratory irritation; nausea, vomiting, gastrointestinal

irritation, burns to the mouth and throat.

# 5. FIRE-FIGHTING MEASURES

Extinguishing Media: Material is not flammable. Use extinguishing media suitable to surrounding materials.

Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable

respiratory protection.

Specific Hazards: None identified

Hazardous combustion products: Oxides of sodium and silicon.

#### 6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into clean, dry disposal container.

Flush spill area with water.

#### 7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong oxidizers. Fluorides.

Storage and Handling: Store locked up in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly

closed and protect them from physical damage.

Avoid breathing dust, fume, gas, mist, vapors, spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection, face protection.

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### OSHA & ACGIH Exposure Limits:

Sodium metasilicate, pentahydrate None identified

Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate

filter.

Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Apearance: White crystals or powder

Odor: Odorless Odor Threshold: Not available pH: Not available Melting/Freezing Point: 72.2 °C Initial Boiling Point and Boiling Range: Not available Not available Flash Point: **Evaporation Rate:** Not available Flammability: Not flammable Flammable or Explosive Upper: Not available Limits (% by volume in air) Lower: Not available Vapor Pressure: Not available Not available Vapor Density: Relative Density: Not available Solubility: Soluble in water Partition Coefficient: n-octanol/water Not available Auto-Ignition Temperature: Not available Decomposition Temperature: Not available

# 10. STABILITY AND REACTIVITY

Viscosity:

Reactivity: No information available

Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur

Conditions to Avoid: None identified

Incompatibles: Incompatible with strong oxidizers. Fluorides.

Decomposition Products: Oxides of sodium and silicon.

# 11. TOXICOLOGICAL INFORMATION

# Effects of Over Exposure:

Inhalation: Inhalation may irritate the nose, throat and upper respiratory tract.

Not available

Skin Contact: Contact may cause irritation or burns.

Eye Contact: May irritate or burn the eyes.

Ingestion: Harmful if swallowed. Ingestion may cause nausea, vomiting and gastrointestinal irritation and burns to the mouth and

throat.

Chronic Effects: None identified
Target Organs: Eyes, skin.
Additional Effects: None identified
Reproductive Effects: None identified
Carcinogenicity: None identified

**Toxicity Data:** 

Sodium metasilicate, pentahydrate LD50 (oral, rat) 847 mg/kg

## 12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: Terrestrial Toxicity Data:

Sodium metasilicate, pentahydrate No information available No information available

Persistence and degradability: No information available Bioaccumulative potential: No information available Mobility in soil: No information available Other adverse effects: No information available

## 13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

#### 14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transporation, per CFR Title 49.

UN Number: UN3253

Proper Shipping Name: Disodium trioxosilicate

Packing Group: III Hazard Class: 8

Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

## 15. REGULATORY INFORMATION

Sodium metasilicate, pentahydrate is listed in the TSCA inventory.

#### 16. OTHER INFORMATION

OSHA SDS #: 26432 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

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\*\*\*\*\* END OF SDS \*\*\*\*\*

Velva Sheen

## **SECTION I - IDENTIFICATION**

**PRODUCT NAME:** Velva Sheen

**PRODUCT CODE:** 2250

**PRODUCT USE:** Dust Mop Treatment

**COMPANY NAME:** QuestVapco Corporation

COMPANY ADDRESS: PO Box 624 Brenham, TX 77834

**COMPANY PHONE:** 1-800-231-0454 **EMERGENCY PHONE:** 800-255-3924

#### SECTION II - HAZARDS IDENTIFICATION

**CLASSIFICATION:** Flammable Aerosol: Category 2

Liquefied Gas

Eye Irritant: Category 2b Aspiration Hazard: Category 1

HAZARD STATEMENT(S): DANGER: Flammable Aerosol Contains gas under pressure; May explode if heated. Causes eye

irritation. May be fatal if swallowed and enters airways.

This product contains the following percentage of chemicals of unknown toxicity: 0%

PRECAUTIONARY STATEMENTS: 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. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Wash hands thoroughly after handling. 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. If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations.



SYMBOL:

HAZARDS NOT OTHERWISE CLASSIFIED: N/A

# SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
1,8-p-Menthadiene	5989-27-5	5-10%
Isoparaffinic Hydrocarbon	64742-47-8	30-60%
Propane/n-Butane	68476-86-8	7-13%

# **SECTION IV - FIRST AID MEASURES**

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

**INGESTION**: If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

**INHALATION**: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.

**SKIN:** If on skin: Wash with plenty of water. If skin irritation occurs: get medical attention.

**ACUTE HEALTH HAZARDS:** Eye: stinging, tearing, redness

Oral: Aspiration risk

**CHRONIC HEALTH HAZARDS:** None Known

**NOTE TO PHYSICIAN:** There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

# **SECTION V – FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Carbon dioxide, foam, and water fog. **UNSUITABLE EXTINGUISHING MEDIA:** Water spray/stream.

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Velva Sheen

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid contact with skin and breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

**HAZARDOUS COMBUSTION PRODUCTS:** None Known

# **SECTION VI – ACCIDENTAL RELEASE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

**SPILL:** Eliminate all sources of ignition. absorb liquid with non-combustible material like vermiculite, sand or earth and clean up with mop or rag.

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. **RCRA STATUS:** Product should be fully characterized prior to disposal (40 CFR 261).

# **SECTION VII – HANDLING AND STORAGE**

HANDLING AND STORAGE: Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding

50°C/122°F. Pressurized container: Do not pierce or burn, even after use. Store locked up.

**OTHER PRECAUTIONS:** Keep out of the reach of children.

**INCOMPATIBILITY:** Strong oxidizing agents. Strong reducing agents.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
1,8-p-Menthadiene	N/A	N/A
Isoparaffinic Hydrocarbon	400 ppm	400 ppm
Propane/n-Butane	1000 ppm	1000 ppm

**ENGINEERING CONTROLS / VENTILATION:** General ventilation adequate but local exhaust/ventilation preferred.

**RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved respiratory protection if used in confined, poorly ventilated areas.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses

ADDITIONAL MEASURES: Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

## **SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: White Foam ODOR: Citrus-solvent scent ODOR THRESHOLD: 1ppm BOILING POINT: N/D FREEZING POINT: N/D

**FLAMMABILITY:** Flammable Aerosol

FLASH POINT: N/D

AUTOIGNITION TEMPERATURE: N/D LOWER FLAMMABILITY LIMIT: N/D UPPER FLAMMABILITY LIMIT: N/D

**VAPOR PRESSURE (mm Hg):** 11 @ 77°F (25°C)

**VAPOR DENSITY (AIR=1):** > 2 **EVAPORATION RATE:** < 0.8 (Slow)

**SPECIFIC GRAVITY (H2O=1):** 0.905@ 77° F (25° C)

**pH:** 8.1

SOLIDS (%): N/D

**SOLUBILITY IN WATER:** Non-soluble

PARTITION COEFFICIENT: n-OCTANOL/WATER (Kow): N/D

VOLATILITY INCLUDING WATER (%): 99% VOLATILE ORGANIC COMPOUNDS (VOC): 17%

**DIELECTRIC STRENGTH (Volts):** N/A **DECOMPOSITION TEMPERATURE:** N/D

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VISCOSITY: N/D

# SECTION X – STABILITY AND REACTIVITY DATA

REACTIVITY: None Known
CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: None known

INCOMPATIBILITY: Strong oxidizing agents. Strong reducing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Carbon monoxide and unidentified organic compounds may be formed

during combustion.

POSSIBLE HAZARDOUS REACTIONS: None Known

# SECTION XI - TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Isoparaffinic Hydrocarbon (64742-47-8) LD<sub>50</sub> (Oral, Rat) 5 g/kg; LD<sub>50</sub> (Dermal, Rabbit) 2

g/kg; LC<sub>50</sub> (Rat, 4hr) 5 mg/L

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

**EYES:** Causes irritation.

INGESTION: Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even

small quantities may result in aspiration pneumonitis

INHALATION: Causes dizziness.

**SKIN:** May cause mild irritation, localized defatting, dryness.

MEDICAL CONDITION AGGRAVATED: Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over

exposure.

**ACUTE HEALTH HAZARDS:** Eye: stinging, tearing, redness

Oral: Aspiration risk

**CHRONIC HEALTH HAZARDS:** None Known

CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

#### **SECTION XII – ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** Not Established **BIODEGRADABILITY:** This product is biodegradable.

**BIOACCUMULATION:** This product is not expected to bioaccumulate.

**SOIL MOBILITY:** This product is mobile in soil. **OTHER ECOLOGICAL HAZARDS:** None Known

## SECTION XIII - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. **RCRA STATUS:** Product should be fully characterized prior to disposal (40 CFR 261).

# **SECTION XIV - TRANSPORTATION INFORMATION**

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION: 2.1** 

UN/NA NUMBER: UN 1950 PACKAGING GROUP: N/A

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION: 2.1** 

UN/NA NUMBER: UN 1950

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION: 2.1** 

# **Safety Data Sheet**

Velva Sheen

UN/NA NUMBER: UN 1950

ENVIRONMENTAL HAZARDS WATER: N/A

## **SECTION XV - REGULATORY INFORMATION**

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA 311/312 HAZARD CATEGORIES: None SARA 313 REPORTABLE INGREDIENTS: None

**CLEAN WATER ACT: None** 

STATE REGULATIONS: California Proposition 65: None

**INTERNATIONAL REGULATIONS:** All components are listed or exempted.

NFPA HEALTH: 1
NFPA FLAMMABILITY: 1
HMIS HEALTH: 1
NFPA FLAMMABILITY: 1
NFPA REACTIVITY: 0
NFPA OTHER: N/A
HMIS PROTECTION: A

# **SECTION XVI - ADDTIONAL INFORMATION**

PREPARATION BY: Jonathon Jarvis DATE PREPARED: 12/17/2013 REVISION DATE: 11/10/2014

N/A = Not Applicable; N/D = Not Determined

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