

TAB #3 E-H

BRAND/ MANUFACTURER	PRODUCT
Generic	Antifreeze & Coolant
Generic	Propane
Generic	Dark Thread Cutting Oil
Generic	Goo Gone
Generic	Oil Dri Absorbent
Generic	Resolute Power Steering Fluid
Generic	WD-40
Geocel	Roof Bonding Sealant- Black
Gorilla	Gorilla Wood Glue
Gumout	Carb Choke Cleaner
Grainger	STA-BIL Fuel Stabilizer
Heet	Gasline Antifreeze and Water Remover
Henkel	Loctite 55 Pipe Sealing Cord
Henkel	Loctite Polyurethane SelfLeveling Concrete Crack Sealant
Hilti	Window and Door Pro 813



Full Force Long Life Concentrate Antifreeze & Coolant

Safety Data Sheet

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

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

1.1. Product identifier

Product form : Mixture
Product name : Full Force Long Life Concentrate Antifreeze & Coolant

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

Use of the substance/mixture : Antifreeze & Coolant

1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC
4065 Commercial Ave.
Northbrook, IL 60062 - USA
T (847) 559-2000
www.oldworldind.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 527 3887 (International)
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302
Repr. 2 H361
STOT RE 2 H373

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)

: Warning

Hazard statements (GHS-US)

: H302 - Harmful if swallowed

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use

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

P260 - Do not breathe mist, spray, vapors

P264 - Wash affected areas thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P280 - Wear personal protective equipment as required

P301+P310 - If swallowed: Immediately call doctor/physician or poison center

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
ethylene glycol	(CAS No) 107-21-1	90 - 97	Acute Tox. 4 (Oral), H302
diethylene glycol	(CAS No) 111-46-6	< 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
water	(CAS No) 7732-18-5	< 4	Not classified
potassium 2-ethylhexanoate	(CAS No) 3164-85-0	< 3	Repr. 2, H361
denatonium benzoate	(CAS No) 3734-33-6	30 - 50 ppm	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : 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 : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

First-aid measures after skin contact : Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Rinse immediately with plenty of water. Get medical advice/attention.

First-aid measures after ingestion : Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.

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

Symptoms/injuries : Causes damage to organs (kidneys) Oral. Suspected of damaging fertility or the unborn child.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

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

A more effective intravenous antidote for physician uses is 4-methylpyrazole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occurred.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Fine water spray. Dry powder. Alcohol-resistant foam. Foam. Carbon dioxide. Sand. Water fog.

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Reactivity : No dangerous reactions known under normal conditions of use.

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

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Special protective equipment for fire fighters : Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

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 : Equip cleanup crew with proper protection. Refer to section 8.2.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : 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 vapor.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use. Product may become solid at temperatures below -18 °C (0 °F). Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty. Do not store near food, foodstuffs, drugs or potable water supplies.

Incompatible products : Keep away from strong acids, strong bases and oxidizing agents.

Incompatible materials : Sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethylene glycol (107-21-1)

ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
ACGIH	Remark (ACGIH)	Upper Respiratory Tract (URT) & Eye irritant
OSHA	Not applicable	

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses.



Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Respiratory protection

: If exposed to levels above exposure limits wear appropriate respiratory protection.

Other information

: Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Yellow Green
Odor	: Mild
Odor threshold	: No data available
pH 50% water solution	: 8
Relative evaporation rate (butylacetate=1)	: Nil
Freezing point	: -18 °C (0 °F)
Boiling point	: 158 °C (317 °F)
Flash point	: 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56
Auto-ignition temperature	: 400 °C (752 °F) [100% Ethylene Glycol] Literature
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 @ 20 °C
Relative vapor density at 20 °C	: No data available
Specific Gravity	: 1.12
Density	: 1.12 kg/l (9.3 lbs/gal)
Solubility	: Water: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: Not applicable.
Explosive limits	: 3.2 - 15.3 vol %

9.2. Other information

VOC content	: 0.00 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Extremely high or low temperatures. Keep away from any flames or sparking source.

10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Fume. alcohols. Aldehydes. Ethers.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Oral: Harmful if swallowed.
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denatonium benzoate (3734-33-6)

LD50 oral rat	584.00 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2,000.00 mg/kg (Rabbit; Literature study)
ATE US (oral)	584.00 mg/kg bodyweight

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ethylene glycol (107-21-1)

LD50 oral rat	> 5,000.00 mg/kg (Rat; Literature study)
ATE US (oral)	500.00 mg/kg bodyweight

diethylene glycol (111-46-6)

LD50 dermal rabbit	11,890.00 mg/kg (Rabbit)
ATE US (oral)	500.00 mg/kg bodyweight
ATE US (dermal)	11,890.00 mg/kg bodyweight

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 : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
May cause damage to organs through prolonged or repeated exposure

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

SECTION 12: Ecological information

12.1. Toxicity

denatonium benzoate (3734-33-6)

LC50 fish 1	> 1,000.00 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	13.00 mg/l (EC50; 48 h; Daphnia magna)

ethylene glycol (107-21-1)

EC50 Daphnia 1	> 10,000.00 mg/l (EC50; 24 h)
LC50 fish 2	40,761.00 mg/l (LC50; 96 h; Salmo gairdneri)

diethylene glycol (111-46-6)

LC50 fish 1	> 5,000.00 mg/l (LC50; 24 h)
EC50 Daphnia 1	> 10,000.00 mg/l (EC50; 24 h)

12.2. Persistence and degradability

denatonium benzoate (3734-33-6)

Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.
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ethylene glycol (107-21-1)

Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance
ThOD	1.29 g O ₂ /g substance
BOD (% of ThOD)	0.36

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diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance
ThOD	1.51 g O ₂ /g substance
BOD (% of ThOD)	0.02

12.3. Bioaccumulative potential

denatonium benzoate (3734-33-6)	
BCF fish 1	1.4 - 3.6 (BCF; BCFAF v3.00)
Log Pow	1.78 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

ethylene glycol (107-21-1)

BCF fish 1	10.00 (BCF; 72 h)
BCF other aquatic organisms 1	0.21 - 0.6 (BCF)
BCF other aquatic organisms 2	190.00 (BCF; 24 h)
Log Pow	-1.34 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

diethylene glycol (111-46-6)

BCF fish 1	100.00 (BCF; Other; 3 days; Leuciscus melanotus; Static system; Fresh water; Experimental value)
Log Pow	-1.98 (Calculated; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

ethylene glycol (107-21-1)	
Surface tension	0.05 N/m (20 °C / 68 °F)
diethylene glycol (111-46-6)	
Surface tension	0.05 N/m
Log Koc	Koc, SRC PCKOCWIN v1.66; 1; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0; Calculated value

12.5. Other adverse effects

Effect on ozone layer : No known effect on the ozone layer
Effect on 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

Waste disposal recommendations : Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Transport document description : UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
UN-No.(DOT) : UN3082
Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.
Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

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Hazard labels (DOT)

: 9 - Class 9 (Miscellaneous dangerous materials)



Packing group (DOT)

: III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx)

: 203

DOT Packaging Bulk (49 CFR 173.xxx)

: 241

DOT Symbols

: G - Identifies PSN requiring a technical name

DOT Packaging Exceptions (49 CFR 173.xxx)

: 155

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

: No limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

: No limit

DOT Vessel Stowage Location

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel

Other information

: Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package).

TDG

Refer to current TDG Canada for further Canadian regulations

Transport by sea

Proper Shipping Name (IMDG)

: Not regulated by IMDG (in quantities under 5,000 lbs in any one inner package)

Air transport

Proper Shipping Name (IATA)

: Not regulated by IATA (in quantities under 5,000 lbs in any one inner package)

SECTION 15: Regulatory information

15.1. US Federal regulations

Full Force Long Life Concentrate Antifreeze & Coolant	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
denatonium benzoate (3734-33-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
ethylene glycol (107-21-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA
CERCLA RQ	5000 lb(s)
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting
SARA Section 313 - Emission Reporting	Ethylene glycol is subject to Form R Reporting requirements.
diethylene glycol (111-46-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
potassium 2-ethylhexanoate (3164-85-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

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WHMIS Classification



Class D Division 2
Subdivision A - Very
toxic material
causing other toxic
effects

EU-Regulations

No additional information available

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

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

National regulations

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DSL (Canada): The intentional ingredients of this product are listed
ECL (South Korea): The intentional ingredients of this product are listed
EINECS (Europe): The intentional ingredients of this product are listed
ENCS (Japan): The intentional ingredients of this product are listed

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, substance(s) known to the state of California to cause cancer, developmental toxicity and/or reproductive toxicity

ethylene glycol (107-21-1)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	Yes	No	No	

ethylene glycol (107-21-1)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

diethylene glycol (111-46-6)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Full text of H-statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

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NFPA health hazard

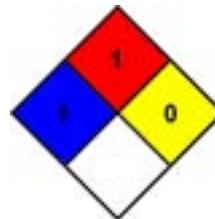
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C). (Class IIIB)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection

B - Safety glasses, Gloves

SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.



SAFETY DATA SHEET

Section 1. Identification

CHS Inc. P.O. Box 64089 Mail station 525 St. Paul, MN 55164-0089	Transportation Emergency (CHEMTREC) : 1-800-424-9300 Technical Information : 1-651-355-8443 SDS Information : 1-651-355-8445
Product name : PROPANE Alternative Fuel Mixture	SDS no. : 0148-M7A0
Common name : Propane, Liquefied Petroleum Gas; LP Gas; HD-5 Propane; HD-10 Propane; Commercial Propane, Unodorized Propane, Odorized Propane. Alternative Fuel Mixture	Revision date : 01/11/2018
Chemical name : Dimethylmethane	Chemical formula : C ₃ H ₈
Relevant identified uses of the substance or mixture and uses advised against	
Not available.	

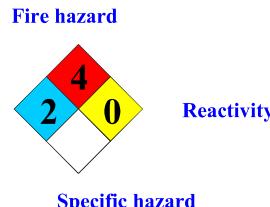
Section 2. Hazards identification

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 GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas
GHS label elements	
Hazard pictograms	:  
Signal word	: Danger
Hazard statements	: H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated.
Precautionary statements	
General	: If medical advice is needed, have product container or label at hand.
Prevention	: Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/clothing and eye/face protection. Use personal protective equipment as required.
Response	: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
Storage	: Protect from sunlight. Store in a well-ventilated place.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.
Hazardous Material Information System (U.S.A.)	Health : 0
National Fire Protection Association (U.S.A.)	Health : 2
	Flammability : 4
	Physical hazards : 3
	Instability : 0

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

Health	0
Fire hazard	4
Physical hazards:	3
Personal protection	

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



Reactivity

Specific hazard

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Dimethylmethane
Other means of identification	: Propane, Liquefied Petroleum Gas; LP Gas; HD-5 Propane; HD-10 Propane; Commercial Propane, Unodorized Propane, Odorized Propane. Alternative Fuel Mixture

Ingredient name	%	CAS number
Propane	80 - 100	74-98-6
Potential impurities:		
Propene	<20	115-07-1
Butane	<5	106-97-8
Ethane	<6	74-84-0
Isobutane	<2.5	75-28-5

Odorized products contain small quantities of ethyl mercaptan as an olfactory indicator.

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	: In case of liquid contact with eyes, flush eyes immediately with clear water for at least 15 minutes, occasionally lifting the upper and lower lids, until no evidence of chemical remains. Remove contact lenses if present and easy to do. Seek immediate medical attention.
Inhalation	: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If breathing difficulties develop, oxygen should be administered by qualified personnel. If victim is not breathing, clear airway and immediately begin artificial respiration. Seek immediate medical attention.
Skin contact	: Frozen tissue should be flushed with plenty of tepid water. Do not use hot water. In case of blistering, frostbite, or freeze burns, seek immediate medical attention.
Ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with cool water. Seek medical attention.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Liquid can cause burns similar to frostbite.
Inhalation	: The substance may cause effects on the central nervous system.
Skin contact	: Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Ingestion	: Ingestion of liquid can cause burns similar to frostbite.

Over-exposure signs/symptoms

Eye contact	: Propane exhibits some degree of anesthetic action and is mildly irritating to the mucous membranes.
Inhalation	: At high concentrations propane acts as a simple asphyxiant without other significant physiological effects. High concentrations may cause death due to oxygen depletion. Dizziness; confusion; excitation; asphyxia.
Skin contact	: Adverse symptoms may include the following: frostbite
Ingestion	: Adverse symptoms may include the following: frostbite

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

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire. Do not extinguish gas fire unless the gas leak can be stopped.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The gas is heavier than air and may flash back at a distance.
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. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so. : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.
Special protective equipment for fire-fighters	

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Accidental releases pose a serious fire or explosion hazard. 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 gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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Methods and materials for containment and cleaning up

Spill	: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. 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. Do not puncture or incinerate 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. 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 away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Propane	NIOSH REL (United States, 10/2016). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m ³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2017). Oxygen Depletion [Asphyxiant]. ACGIH TLV (United States, 3/2017). TWA: 500 ppm 8 hours. NIOSH REL (United States, 10/2016). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. ACGIH TLV (United States, 3/2017).
Propene	
Butane	

Isobutane	STEL: 1000 ppm 15 minutes. NIOSH REL (United States, 10/2016). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. ACGIH TLV (United States, 3/2017). STEL: 1000 ppm 15 minutes.
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Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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: safety glasses with side-shields.

Skin protection

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

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

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

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance		
Physical state	: Gas. [Liquefied gas.]	Relative density : 0.5 to 0.51
Color	: Colorless.	Evaporation rate : >1 (Butyl acetate = 1)
Odor	: No distinct odor (or skunk, rotten egg or garlic if odorant added)	Solubility : Not available.
Odor threshold	: Not available.	Solubility in water : Negligible.
pH	: Not available.	Partition coefficient: n-octanol/water : Not available.
Melting point	: -189°C (-308.2°F)	Auto-ignition temperature : 450°C (842°F)
Boiling point	: -42°C (-43.6°F)	Decomposition temperature : Not available.
Flash point	: Closed cup: -104°C (-155.2°F) [Tagliabue.]	SADT : Not available.
Flammability	: Not available.	Viscosity : Not available.
Lower and upper explosive (flammable) limits	: Lower: 2.1% Upper: 9.5%	Vapor pressure : 1434 kPa (10756 mm Hg) [37.8°C] Vapor density : >1 [Air = 1]

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 gas to accumulate in low or confined areas.

Incompatible materials : Avoid contact with acids, aluminum chloride, chlorine, chlorine dioxide, halogens and oxidizing agents.

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
Ethanol	LC50 Inhalation Vapor LD50 Oral	Rat Rat	124700 mg/m ³ 7 g/kg	4 hours -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethanol	Eyes - Mild irritant Eyes - Moderate irritant	Rabbit Rabbit	- -	24 hours 500 mg 0.0666666667 minutes 100 mg 100 µl 500 mg 400 mg	- -
	Eyes - Moderate irritant	Rabbit	-	100 µl	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-

Sensitization

Skin : There is no data available.

Respiratory : There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Ethanol	-	1	-

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

Central nervous system (CNS)

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact, Eye contact, Inhalation.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Ethanol	Acute EC50 1074 mg/L Fresh water Acute LC50 5680 mg/L Fresh water Acute LC50 11000000 µg/L Marine water Chronic NOEC 4.995 mg/L Marine water Chronic NOEC 100 µl/L Fresh water Chronic NOEC 0.375 µl/L Fresh water	Crustaceans - Cypris subglobosa Daphnia - Daphnia magna - Neonate Fish - <i>Alburnus alburnus</i> Algae - <i>Ulva pertusa</i> Daphnia - Daphnia magna - Neonate Fish - <i>Gambusia holbrooki</i> - Larvae	48 hours 48 hours 96 hours 96 hours 21 days 12 weeks

Persistence and degradability

Biodegradation of this product may occur in soil and water. Volatilization is expected to be the most important removal process in soil and water. This product is expected to exist entirely in the vapor phase in ambient air.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Ethanol	-0.35	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : There is no data available.

Other adverse effects : Other environmental hazards cannot be excluded in the event of unprofessional handling or disposal.

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 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. Empty pressure vessels should be returned to the supplier. 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.
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Section 14. Transport information

DOT IDENTIFICATION NUMBER UN1075

DOT proper shipping name LIQUEFIED PETROLEUM GAS (Propane, Propene)

DOT Hazard Class(es) 2.1

PG Not applicable.

DOT EMER. RESPONSE GUIDE NO. 115

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 (CAA) 112 regulated flammable substances: Propane; Propene; Ethane; Butane; Isobutane
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	: Not listed

SARA 302/304**Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : FLAMMABLE GASES - Category 1
GASES UNDER PRESSURE - Liquefied gas

Composition/information on ingredients

Name	Classification
Ethanol	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SARA 313 : This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Propene	115-07-1	<20

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: Propane; Propene; Ethane; Butane; Isobutane; Ethanol

New York : None of the components are listed.

New Jersey : The following components are listed: Propane; Propene; Ethane; Butane; Isobutane; Ethanol

Pennsylvania : The following components are listed: Propane; Propene; Ethane; Butane; Isobutane; Ethanol

California Prop. 65

No products were found.

Section 16. Other information**Revision date** : 01/11/2018**Revised Section(s)** : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16.**Supersedes** : 03/13/2015**Prepared by** : KMK Regulatory Services Inc.Notice to reader

THE INFORMATION CONTAINED IN THIS SDS RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED. IT DOES NOT COVER USE OF THAT MATERIAL IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PARTICULAR PROCESS. IN COMPLIANCE WITH 29 C.F.R. 1910.1200(q), CHS HAS PREPARED THIS SDS IN SEGMENTS, WITH THE INTENT THAT THOSE SEGMENTS BE READ TOGETHER AS A WHOLE WITHOUT TEXTUAL OMISSIONS OR ALTERATIONS. CHS BELIEVES THE INFORMATION CONTAINED HEREIN TO BE ACCURATE, BUT MAKES NO REPRESENTATION, GUARANTEE, OR WARRANTY, EXPRESS OR IMPLIED, ABOUT THE ACCURACY, RELIABILITY, OR COMPLETENESS OF THE INFORMATION OR ABOUT THE FITNESS OF CONTENTS HEREIN FOR EITHER GENERAL OR PARTICULAR PURPOSES. PERSONS REVIEWING THIS SDS SHOULD MAKE THEIR OWN DETERMINATION AS TO THE MATERIAL'S SUITABILITY AND COMPLETENESS FOR USE IN THEIR PARTICULAR APPLICATIONS.



A BRAND OF 

SAFETY DATA SHEET

Section 1 – Product & Company Identification

Product Name:
RIDGID Dark Thread Cutting Oil

Product Catalog No.:
11471, 11491, 41590, 41600, 41610, 70830

Recommended Use:
Thread Cutting

Restrictions on Use:
Use in the manufacturing process 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

Australia
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: March 27, 2017

Section 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 applicable

Section 3 – Composition / Information On Ingredients

<u>Component:</u>	<u>CAS #</u>	<u>% By Weight</u>
Mineral Oil	Confidential	40-100%

This product does not contain silicone or chlorinated additives.

Specific chemical identities and/or exact percentages have been withheld as trade secrets.

Product Name : RIDGID Dark Thread Cutting Oil

Section 4 – First Aid Measures

INGESTION:

Rinse mouth thoroughly. Call a Poison Center or doctor if you feel unwell. Do NOT induce vomiting.

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.

Product Name : RIDGID Dark Thread Cutting Oil

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.

Section 6 – Accidental 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.

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. End-users should follow industry best practices for handling and using this product. Guidance may be found using the current version of ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids

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 Dark Thread Cutting Oil

Section 8 – Exposure Controls / Personal Protection

EXPOSURE LIMITS:

Chemical name	type	Exposure Limit Values	Source
Mineral oil - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Mineral oil - Mist.	STEL	10 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

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.

Product Name : RIDGID Dark Thread Cutting Oil

Section 9 – Physical And Chemical Properties

Appearance	
Physical State	Liquid
Form	No data available
Color	Black
Odor	Mild petroleum
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	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 (%)	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
Solubility (other)	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	42.5 mm ² /s (40 °C, measured)
VOC	2 g/l

Product Name : RIDGID Dark Thread Cutting Oil

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:

Thermal decomposition or combustion may liberate carbon oxides and 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.

Product Name : RIDGID Dark Thread Cutting Oil

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity

Oral Product:

ATEmix (): 2000 - 5000 mg/kg

Dermal Product:

ATEmix (): 2000 - 5000 mg/kg

Inhalation Product:

ATEmix (, 4h): > 5000 mg/l dusts, mists and fumes

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

Product Name : RIDGID Dark Thread Cutting Oil

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.

Product Name : RIDGID Dark Thread Cutting Oil

Section 16 – Other Information

Prepared by: Ridge Tool Company (Operating Standard 6-103)

Issue Date: March 27, 2017

Last Revision Date: May 29, 2015

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.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

**GOO
GONE**

Product: Goo Gone- 2028, 2030, 2030A, 2050, 2053, 2082, 2086, 2087, 2089, 2090, 2092, 2035CLIP, 2095CLIP, 2129, 2139B, 2166D

Revision Date: 23-Aug-2017

SECTION 1 – IDENTIFICATION

Product Identifier

Product Name: Goo Gone

Product Code: 2028, 2030, 2030A, 2050, 2053, 2082, 2086, 2087, 2089, 2090, 2092, 2035CLIP, 2095CLIP, 2129, 2139B, 2166D

Recommended Use of the Chemical and Restrictions for Use

Recommended Use: Cleaner

Restrictions for Use: Use only as directed.

Details of the Supplier

Manufacturer: Goo Gone
755 Tri-State Parkway
Gurnee, IL 60031
855-364-8135

Emergency Phone Number

24-Hour Number: 1-800-535-5053

International: 1-352-323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Classification

Hazard Class	Category
Flammable Liquid	4
Skin Sensitization	1
Aspiration Hazard	1

Label Elements

Hazard Symbols(s):



Signal Word(s): Danger

Hazard Statement(s): Combustible liquid. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.

Precautionary Statement(s): Keep away from flames and hot surfaces. No smoking. Avoid breathing fume/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other Hazards

None known

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Wt %
Petroleum distillates, hydrotreated light	64742-47-8	60-100
D-Limonene	5989-27-5	1-5
Orange, sweet, extract	8028-48-6	0.5-1.5

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Goo Gone- 2028, 2030, 2030A, 2050, 2053, 2082, 2086, 2087, 2089, 2090, 2092, 2035CLIP, 2095CLIP, 2129, 2139B, 2166D

Revision Date: 23-Aug-2017

SECTION 4 – FIRST AID MEASURES

First Aid Measures

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Eye Contact: Rinse immediately with water for at least 15 minutes. Remove contact lenses, if worn. If irritation persists, seek medical attention immediately.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash with soap and water. If irritation persists, seek medical attention.

Most Important Symptoms and Effects (Acute and Delayed)

Inhalation: May cause respiratory track irritation.

Eye Contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause sensitization by skin contact.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physician: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Suitable: Treat for surrounding material.

Unsuitable: None known.

Specific Hazards Arising from Chemical

Products of combustion include but are not limited to: oxides of carbon.

Protective Equipment and Precautions for Firefighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Use personal protective equipment as required.

Environmental Precautions: See Section 12 for ecological information.

Methods and Material for Containment and Cleaning Up

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). For cleaning up scoop up material and place in a disposal container. Provide ventilation.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Avoid breathing fume/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

General Hygiene Advice: Launder contaminated clothing before use. Wash hands before eating, drinking, or smoking.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Goo Gone- 2028, 2030, 2030A, 2050, 2053, 2082, 2086, 2087, 2089, 2090, 2092, 2035CLIP, 2095CLIP, 2129, 2139B, 2166D

Revision Date: 23-Aug-2017

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep container closed when not in use. Store in a dry, cool, and well-ventilated area. Keep out of reach of children.

Incompatible Materials: None known.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated light (64742-47-8)	200 mg/m ³	100 ppm	Not available
D-Limonene (5989-27-5)	Not available	Not available	Not available
Orange, sweet, extract (8028-48-6)	Not available	Not available	Not available

Appropriate Engineering Controls

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

Individual Protection Measures

Respiratory Protection: None required under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment.

Skin and Body Protection: Wear suitable protective clothing.

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

General Work/Hygienic Practices: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow clear liquid

Odor: Citrus

Odor threshold: Not determined

pH: Not determined

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: 85°C (185°F) TCC

Evaporation rate: Not determined

Flammability (solid, gas): Flammable

Upper/lower flammability or explosive limits: Not determined

Vapor pressure: Not determined

Vapor density: Not determined

Relative density: 0.80

Solubility(ies): Not determined

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under recommended storage conditions.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Goo Gone- 2028, 2030, 2030A, 2050, 2053, 2082, 2086, 2087, 2089, 2090, 2092, 2035CLIP, 2095CLIP, 2129, 2139B, 2166D

Revision Date: 23-Aug-2017

Possibility of hazardous reactions: None under normal use.

Conditions to avoid: Heat. Incompatible materials. Sources of ignition.

Incompatible materials: None known.

Hazardous decomposition products: May include and are not limited to: oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Likely Routes of Exposure: Inhalation, skin contact, eye contact, ingestion

Information Related to Physical, Chemical, and Toxicological Effects

See section 4 of this SDS.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: NTP: No IARC: No OSHA: No

Numerical Measures of Toxicity

Product	ATE (oral)	ATE (dermal)	ATE (inhalation)
	>2000 mg/kg, rat		
	>2000 mg/kg, rabbit		
	Not available		

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light (64742-47-8)	>5000 mg/kg, rat	>2000 mg/kg, rabbit	>5.2 mg/l/4h, rat
D-Limonene (5989-27-5)	4400 mg/kg, rat	>5000 mg/kg, rabbit	Not available
Orange, sweet, extract (8028-48-6)	>5000 mg/kg, rat	>5000 mg/kg, rabbit	Not available

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not established

Persistence and degradability: Not established

Bioaccumulative potential: Not established

Mobility in soil: No additional information available

Other adverse effects: No additional information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

See section 8 of this SDS for exposure controls and personal protection.

Dispose of the product and container in accordance with all applicable local, state, and federal regulations.

SECTION 14 – TRANSPORT INFORMATION

Note: Classification changes based on quantity, packaging, and method of shipment. See current shipping paper for most up to date shipping information.

DOT (Ground): Not Regulated- See 49 CFR 173.150(f)(2) as the product is not bulk packaged.

IATA (Air): Not Regulated

IMDG (Vessel): Not Regulated

SECTION 15 – REGULATORY INFORMATION

All ingredients in this product are listed or are excluded from listing on the US Toxic Substances Act (TSCA) Chemical Substance Inventory.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Goo Gone- 2028, 2030, 2030A, 2050, 2053, 2082, 2086, 2087, 2089, 2090, 2092, 2035CLIP, 2095CLIP, 2129, 2139B, 2166D

Revision Date: 23-Aug-2017

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration (OSHA) applicable to this Safety Data Sheet differ from the requirements of the CPSC and as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

SECTION 16 – OTHER INFORMATION

Issue Date: 23-Aug-2017

Revision Date: 23-Aug-2017

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

End of Safety Data Sheet



SAFETY DATA SHEET

Granular Absorbent - IL - MS

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Granular Absorbent - IL - MS

SDS Number: 1003000

Manufacturer:	Oil-Dri Corporation of America 410 North Michigan Avenue Chicago, IL 60611 +1-312-321-1515
Canadian Office:	Oil-Dri Canada 730 Rue Salaberry Laval, QC H7S 1H3 Canada +1-450-663-5750
TRANSPORTATION EMERGENCY INFORMATION:	Chemtrec +1-800-424-9300 (US and Canada) +1-703-527-3887 (International - Call Collect)

Product Use: Absorbent

Restrictions On Use: Not to be used with turpentine, hydrofluoric acid, vegetable oil, and other unsaturated organic compounds (such as fish oil), as this may generate heat and/or fire.

2. HAZARDS IDENTIFICATION**GHS Classification:**

Health: Carcinogen Category 1A

Specific Target Organ Toxicity - Repeat Exposure Category 1

Environmental: Not Hazardous

Physical: Not Hazardous

GHS Labeling:**Pictogram:**

Health Hazard

DANGER!

H350 - May cause cancer by inhalation.

H372 - Causes damage to lungs through prolonged or repeated exposure by inhalation.

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

P260 - Do not breathe dust.

P264 - Wash thoroughly after handling

P280 Wear protective gloves and clothing.

P270 - Do not eat, drink or smoke when using this product.

Response: P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage: Store in a dry area.

Disposal: P501 Dispose of contents/container in accordance with all local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No./ EINECS-No	%
Bentonite	1302-78-9	90-100%
Quartz (crystalline silica) (Respirable <1%)	14808-60-7	0-10%

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If irritation or other symptoms occurs, get medical attention.

Skin contact: No first aid should be needed.

Eye contact: Immediately flush eyes with cool running water, lifting upper and lower lids. If irritation persists or for foreign body in the eye, get medical attention.

Ingestion: If used material is ingested, get medical attention due to possibility of chemical contamination. If large amount of unused material is swallowed, get immediate medical attention.

Most Important symptoms and effects, both acute and delayed: Eye contact may cause mechanical irritation and possible eye injury. May cause mechanical skin and respiratory irritation. This product contains <1% respirable crystalline silica. May cause cancer if respirable dust is inhaled over prolonged periods. This product contains crystalline silica. Inhalation of respirable crystalline silica may cause lung disease, silicosis with symptoms of shortness of breath and cough.

Indication of any immediate medical attention and special treatment needed: No immediate medical attention is required.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use media that is appropriate for surrounding fire; unused product is not combustible.

Specific Hazards Arising from the Chemical: None for unused product.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should always wear self-contained breathing apparatus and full protective clothing for fires involving chemicals or in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: No special equipment is generally required for spill clean-up. For dusty conditions, an approved respirator may be needed. Refer to Section 8 for additional information.

Environmental Hazards: Report releases as required by local and federal regulations.

Methods and Materials for Containment and Cleaning Up: Sweep up and collect unused material for re-use or disposal. For dusty conditions, an approved respirator may be needed. Refer to Section 8 for additional information.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly with soap and water after use. If clothing becomes dusty, launder before re-use. Use only with adequate ventilation. Minimize the generation and accumulation of dust. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations.

Conditions for Safe Storage, including any Incompatibilities: Store in a dry area. Keep away from turpentine, hydrofluoric acid, vegetable oil, and other unsaturated organic compounds (such as fish oil), as this may generate heat and/or fire.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Chemical Name	Exposure limit(s)
Bentonite	15 mg/m ³ PEL-TWA (total dust), 5 mg/m ³ PEL-TWA (respirable dust)
Quartz (crystalline silica) (Respirable <1%)	30 mg/m ³ / %SiO ₂ +2 (total dust) TWA OSHA PEL 10 mg/m ³ / %SiO ₂ +2 (respirable dust) TWA OSHA PEL 0.025 mg/m ³ (respirable dust) TWA ACGIH TLV

Appropriate Engineering Controls: General ventilation is adequate for normal use. If handling produces airborne dust, local exhaust ventilation may be needed.

Individual Protection Measures, such as Personal Protective Equipment:

Eye Protection: Safety goggles if needed to prevent eye contact.

Skin Protection: None required for normal use.

Respiratory Protection: None required for normal use. For operations where the dust concentration may be excessive, a dust respirator may be used. Follow OSHA regulations in the selection and use of respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance:	Gray to Tan to Red Granular Solid
Odor Threshold:	Not applicable.
Boiling point/range	Not applicable.
Melting point/range	Not available
Relative density	2.2
Vapor pressure	Not applicable.
Vapor density (air=1)	Not applicable.
Solubility	Insoluble
pH	Not applicable.
Partition coefficient (n-octanol/water):	Not available
Evaporation Rate (Butyl acetate=1)	Not applicable.
Viscosity:	Not applicable.
Volatile Organic Carbon Compounds (VOC) (g/L)	Not available
Flashpoint:	Not applicable.
Flammable Limits in Air % by Volume:	LEL (Lower): Not applicable. UEL (Upper): Not applicable.
Autoignition temperature:	Not available
Decomposition temperature:	Not available
Flammability (solid, gas):	Not flammable

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical Stability: Stable

Possibility of Hazardous Reactions: Spontaneous combustion can occur when this product is used to absorb high concentrations of chemicals having a high heat of absorption such as olefins, hydrochloric acid, etc.

Conditions to Avoid: None

Incompatible Materials: Turpentine, hydrofluoric acid, vegetable oil, fish oil, unsaturated organic compounds.

Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Acute Hazards:

Inhalation: Inhalation of dust may cause irritation to the eyes, nose, throat and respiratory tract.

Skin contact: No known hazard.

Eye contact: Contact may cause mechanical, abrasive irritation with possible injury.

Ingestion: No known hazard.

Chronic Effects: Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains crystalline silica, in the form of quartz. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling and sometimes fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function.

Carcinogenicity Listing: The International Agency for Research on Cancer (IARC), in Monograph 100C has concluded that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 1). Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. The National Toxicology Program (NTP) classifies crystalline silica as a known carcinogen. Applications and exposure data indicate that exposure to respirable quartz in this product with normal use is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV). The manufacturer is not aware of any scientific or medical data available indicating that exposure to respirable crystalline silica from this product under conditions of normal use will cause silicosis or cancer. Adverse effects would not be expected from normal use of this product.

Acute Toxicity Values: Silica: LD50 oral rat 22,500 mg/kg, LC50 carp >10,000mg/L/72 hr.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available for the product. No adverse effects on the environment are expected.

Persistence and Degradability: Bentonite and silica are non-degradable.

Bioaccumulative Potential: Not bioaccumulative.

Mobility in Soil: No data available

Other Adverse Effects: None currently known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental Regulations. Unused material is suitable for disposal in sanitary landfill. Used material may be subject to regulation, depending on the nature of the material absorbed. Check with appropriate regulatory authority for used material containing hazardous waste.

14. TRANSPORT INFORMATION

US DOT Shipping Description: Not regulated

IATA Shipping Description (Air): Not regulated

Proper Shipping Name: Not regulated

UN Number: Not applicable.

Packing Group: Not applicable.

Labels Required: None

15. REGULATORY INFORMATION

US Regulations

SARA 311/312 Hazard Categories: Chronic Health

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): None

SARA 302 Listed Chemicals: None

CERCLA: This product is not subject to CERCLA release reporting. Many states have more stringent reporting requirements. Report releases as required by local and state regulations.

California Proposition 65: This product contains respirable crystalline silica which is known to the State of California to cause cancer.

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

International Regulations:

EU REACH: Contact Oil Dri for information on REACH status.

Japan MITI: No data available

AICS: No data available

16. OTHER INFORMATION

Date Prepared: 5/1/2017

Revision Summary: May 29, 2015 - Conversion to Hazcom 2012 classification and labeling and format.

July 7, 2015 - Section 16 Products List

August 21, 2015 - Section 16 Products List

May 1, 2017 - Section 1

HMIS Rating: Health 0* Fire 0 Reactivity 0

0 = Minimal Hazard, 1 = Slight Hazard, 2 = Moderate Hazard, 3 = Serious Hazard, 4 = Severe Hazard

List of Associated Products:

Oil-Dri Products:	Absorbs It	Oil-Dri Quick Sorb
Oil-Dri Premium Absorbent	Leak & Spill	

Private Label Products:	WW Grainger Condor Bag (25#, 40#, 50#)	Frantz Oil Zorb Bag (40#, 50#)

The information contained herein is true and correct to the best of Oil-Dri Corporation of America's knowledge. However, no warranty, expressed or implied, is made. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. Final determination of the suitability of the material is the sole responsibility of the user.



SAFETY DATA SHEET

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

1.1. Product identifier

Product Name: RESOLUTE PSF 12/1QT
Product Code: FF31PSPL

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

Recommended use: Hydraulic Oil
Recommended restrictions: Not applicable

1.3. Details of the supplier of the safety data sheet

Manufacturer: Warren Distribution, Inc.
727 S. 13th Street
Omaha, NE 68102
Information Phone: +01 (800) 825-1235 +01 (402) 341-9397
E-mail: sds@wd-wpp.com

1.4. Emergency telephone number

Emergency phone number: CHEMTREC: +1 (800) 424-9300
International: +01 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified under GHS

2.2. Label elements

2.3. Other hazards

Hazards not otherwise classified: Avoid prolonged or repeated skin contact with used fluid.

Unknown acute toxicity (GHS-US)

SECTION 3: Composition/information on ingredients

Chemical Name	%	CAS #	GHS Classification
Petroleum distillates, hydrotreated heavy paraffinic	100	64742-54-7	Acute Tox. 4; H332 Acute Tox. 3; H331

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
Eyes	None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops or persists. Seek medical advice if symptoms persist.
Ingestion	Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

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

Symptoms: Not determined

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

Note to Doctor: Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach

SAFETY DATA SHEET

SECTION 4: First aid measures

contents is necessary, use method least likely to cause aspiration.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable and Unsuitable

Extinguishing Media:

Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

5.2. Special hazards arising from the substance or mixture

Fire and/or Explosion

Hazards

5.3. Advice for firefighters

Fire Fighting Methods and Protection

Hazardous Combustion Products

Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

Carbon monoxide, Smoke

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Measures: No data available.

6.2. Environmental precautions

Do not flush to sewer.

Avoid runoff into storm sewers and ditches that lead to waterways.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so.

Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

6.4. Reference to other sections

Follow all protective equipment recommendations provided in Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special handling instructions due to toxicity.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry place. Isolate from incompatible materials.

Incompatible materials

See Section 10.

7.3. Specific end use(s)

Hydraulic Oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name

Occupational Exposure Limits

Value

Oil mist, mineral

OSHA PEL

5 mg/m³

Oil mist, mineral

ACGIH TLV-TWA

5 mg/m³

Oil mist, mineral

ACGIH STEL

10 mg/m³

None.

IDLH

None.

OSHA PEL-Skin Notation

8.2. Exposure controls

Engineering Measures

Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Respiratory Protection

Respiratory protection may be required to avoid overexposure when handling this product. General

SAFETY DATA SHEET

8.2. Exposure controls

Respirator Type(s)	or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Eye Protection	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.
Skin Protection	No special requirements under normal industrial use.
	Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves	Neoprene, Nitrile

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Color	Amber
Odor	Mild
Odor threshold	Not determined
pH	Not determined
Freezing point	Not determined
Boiling Point	Not determined
Flash Point	207
Flash Point Method	COC
Evaporation Rate	Not determined
Upper Flammable/Explosive Limit, % in air	= 10
Lower Flammable/Explosive Limit, % in air	= 1
Flammability (solid, gas)	Not applicable
Vapor pressure	<0.20
Vapor Density	Not determined
Relative Density	0.86
Solubility in Water	Insoluble
Octanol/Water Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity(°C)	32.11

9.2. Other information

Volatiles, % by weight	0.000000
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SECTION 10: Stability and reactivity

10.1. Reactivity	No data available.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4. Conditions to avoid	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation).
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	Carbon monoxide, Smoke

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingestion Toxicity	No hazard in normal industrial use. Estimated to be > 5.0 g/kg.
Skin Contact	Likely to be non-irritating to skin based on animal data. No hazard in normal industrial use.

SAFETY DATA SHEET

SECTION 11: Toxicological information

Absorption	Likely to be practically non-toxic based on animal data.
Inhalation Toxicity	No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
Eye Contact	This material is likely to be non-irritating to eyes based on animal data. No hazard in normal industrial use.
Sensitization	Non-hazardous under Respiratory Sensitization category. No data available to indicate product or components may be a skin sensitizer.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Carcinogenicity	Not expected to cause cancer. This product meets the IARC-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.
Reproductive and Developmental Toxicity	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Specific target organ toxicity-Single exposure	Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
Specific target organ toxicity-Repeated exposure	Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.
Aspiration toxicity	Non-hazardous under Aspiration category.
Other information	No data available.

Agents Classified by IARC Monographs

Arsenic	IARC Group 1
Benzene	IARC Group 1
Cadmium	IARC Group 1
Lead	IARC Group 2A
Ethyl acrylate	IARC Group 2B
Lead	IARC Group 2B

National Toxicity Program (NTP) Status

Arsenic	Known Human Carcinogen
Benzene	Known Human Carcinogen
Cadmium	Known Human Carcinogen
Lead	Reasonably Anticipated To Be A Human Carcinogen

SECTION 12: Ecological information

12.1. Toxicity

Acute Aquatic ecotoxicity: Non-hazardous under Aquatic Acute Environment category.

Chronic Aquatic ecotoxicity: Non-hazardous under Aquatic Chronic Environment category.

12.2. Persistence and degradability

Biodegrades slowly.

12.3. Bioaccumulative potential

Bioconcentration may occur.

12.4. Mobility in soil

This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods

Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

Waste Disposal Code(s)

Waste Description for Spent Product

SAFETY DATA SHEET

SECTION 13: Disposal considerations

Spent or discarded material is non-hazardous according to environmental regulations.

Contaminated packaging:

Recycle containers whenever possible.

Recycle containers whenever possible.

SECTION 14: Transport information

DOT Basic Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).
Description

SECTION 15: Regulatory information

Chemical Inventories

TSCA Status All components of this material are on the US TSCA Inventory or are exempt.

U.S. State Restrictions: Not applicable

WHMIS: Uncontrolled product according to WHMIS classification criteria.

Chemical Name	Regulation	CAS #	%
None.	CERCLA		
Toluene	SARA 313	108-88-3	0.001- 0.01
Ethyl acrylate	SARA 313	140-88-5	0.001- 0.01
Arsenic	SARA 313	7440-38-2	<10ppm
Lead	SARA 313	7439-92-1	<10ppm
Benzene	SARA 313	71-43-2	<10ppm
Cadmium	SARA 313	7440-43-9	<10ppm
None.	SARA EHS		
None.	TSCA 12b		

U.S. State Regulations

Chemical Name	Regulation	CAS #	%
Ethyl acrylate	California Prop 65- Cancer	140-88-5	0.001- 0.01
Lead	California Prop 65- Cancer	7439-92-1	<10ppm
Benzene	California Prop 65- Cancer	71-43-2	<10ppm
Cadmium	California Prop 65- Cancer	7440-43-9	<10ppm
Toluene	California Prop 65- Dev. Toxicity	108-88-3	0.001- 0.01
Lead	California Prop 65- Dev. Toxicity	7439-92-1	<10ppm
Benzene	California Prop 65- Dev. Toxicity	71-43-2	<10ppm
Cadmium	California Prop 65- Dev. Toxicity	7440-43-9	<10ppm
Lead	California Prop 65- Reprod -fem	7439-92-1	<10ppm
Lead	California Prop 65- Reprod-male	7439-92-1	<10ppm
Benzene	California Prop 65- Reprod-male	71-43-2	<10ppm
Cadmium	California Prop 65- Reprod-male	7440-43-9	<10ppm
None.	Massachusetts RTK List		
None.	New Jersey RTK List		

SAFETY DATA SHEET

Chemical Name	Regulation	CAS #	%
None.	Pennsylvania RTK List		
None.	Rhode Island RTK List		
None.	Minnesota Hazardous Substance List		

HMIS Ratings:		NFPA Ratings:	
Health:	0	Health:	0
Fire:	1	Fire:	1
Reactivity:	0	Reactivity:	0
PPE:	B		

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16: Other Information

Revision Date	5/27/2015 2:35:43 PM
Supersedes:	5/27/2015 2:27:07 PM
References	ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association CFR: Code of Federal Regulations DOT: United States Department of Transportation GHS: Globally Harmonized System of Classification and Labeling of Chemicals HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer IATA: International Air Transportation Association IDLH: Immediately Dangerous to Life or Health IMDG: International Maritime Dangerous Goods NFPA: National Fire Protection Association NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: Permissible Exposure Limit RTK: Right-to-Know SARA: Superfund Amendments and Reauthorization Act STEL: Short-term Exposure Limit TLV: Threshold limit value TSCA: Toxic Substances Control Act TWA: Time weighted average UN: United Nations WHMIS: Workplace Hazardous Materials Information System
Disclaimer	This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.



Safety Data Sheet

1 - Identification

Product Name: WD-40 Multi-Use Product Aerosol
NOT FOR SALE IN CALIFORNIA

Product Use: Lubricant, Penetrant, Drives Out
Moisture, Removes and Protects Surfaces From
Corrosion

Restrictions on Use: None identified

SDS Date Of Preparation: 07/20/2014

Manufacturer: WD-40 Company

Address: 1061 Cudahy Place (92110)
P.O. Box 80607
San Diego, California, USA
92138 -0607

Telephone:
Emergency only: 1-888-324-7596 (PROSAR)
Information: 1-888-324-7596
Chemical Spills: 1-800-424-9300 (Chemtrec)
1-703-527-3887 (International Calls)

2 – Hazards Identification

Hazcom 2012/GHS Classification:

Flammable Aerosol Category 1

Gas Under Pressure: Compressed Gas

Aspiration Toxicity Category 1

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Label Elements:



DANGER!

Extremely Flammable Aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

Prevention

Keep away from heat, sparks, open flames, hot surfaces – No smoking.

Do not spray on an open flame or other ignition source.

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

Response

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

Storage

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Disposal

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

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	US Hazcom 2012/ GHS Classification
Aliphatic Hydrocarbon	64742-47-8	45-50	Flammable Liquid Category 3

			Aspiration Toxicity Category 1
Petroleum Base Oil	64742-56-9 64742-65-0 64742-53-6 64742-54-7 64742-71-8	<25	Not Hazardous
LVP Aliphatic Hydrocarbon	64742-47-8	12-18	Aspiration Toxicity Category 1
Carbon Dioxide	124-38-9	2-3	Simple Asphyxiant Gas Under Pressure, Compressed Gas
Non-Hazardous Ingredients	Mixture	<10	Not Hazardous

Note: The exact percentages are a trade secret.

4 – First Aid Measures

Ingestion (Swallowed): Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

Eye Contact: Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention.

Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

Signs and Symptoms of Exposure: May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Skin contact may cause drying of the skin.

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

5 – Fire Fighting Measures

Suitable (and unsuitable) Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Specific Hazards Arising from the Chemical: Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

6 – Accidental Release Measures

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

Methods and Materials for Containment/Cleanup: Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 – Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

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

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Aliphatic Hydrocarbon	1200 mg/m ³ TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m ³ TWA, 10 mg/m ³ STEL ACGIH TLV 5 mg/m ³ TWA OSHA PEL
LVP Aliphatic Hydrocarbon	1200 mg/m ³ TWA (manufacturer recommended)
Carbon Dioxide	5000 ppm TWA (OSHA/ACGIH), 30,000 ppm STEL (ACGIH)
Non-Hazardous Ingredients	None Established

The Following Controls are Recommended for Normal Consumer Use of this Product

Appropriate Engineering Controls: Use in a well-ventilated area.

Personal Protection:

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

Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Appropriate Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

9 – Physical and Chemical Properties

Appearance:	Light amber liquid	Flammable Limits: (Solvent Portion)	LEL: 0.6% UEL: 8%
Odor:	Mild petroleum odor	Vapor Pressure:	95-115 PSI @ 70°F
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 – 0.82 @ 60°F
Melting/Freezing Point	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 - 187°C)	Partition Coefficient; n-octanol/water:	Not established
Flash Point:	122°F (49°C) Tag Closed Cup (concentrate)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas)	Flammable Aerosol	Viscosity:	2.79-2.96 cSt @ 100°F
VOC:	412 grams/liter (49.5%)	Pour Point:	-63°C (-81.4°F) ASTM D-97

10 – Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: May react with strong oxidizers generating heat.
Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11 – Toxicological Information

Symptoms of Overexposure:

Inhalation: High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.

Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity: None of the components is considered a reproductive hazard.

Numerical Measures of Toxicity:

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

12 – Ecological Information

Ecotoxicity: No specific aquatic toxicity data is currently available, however components of this product are not expected to be harmful to aquatic organisms

Persistence and Degradability: Component are readily biodegradable.

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients.

Mobility in Soil: No data available

Other Adverse Effects: None known

13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information

DOT Surface Shipping Description:

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

IMDG Shipping Description: Un1950, Aerosols, 2.1, LTD QTY

ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1 NOTE: WD-40 does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

15 – Regulatory Information

U.S. Federal Regulations:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many

states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

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

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III

Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

VOC Regulations: This product complies with the consumer product VOC limits of the US EPA and states adopting the OTC VOC rules but does not comply with CARB.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not contain chemicals regulated under California Proposition 65.

Canadian Environmental Protection Act: One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

Canadian WHMIS Classification: Class A (Compressed gas), Class B-5 (Flammable Aerosol)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

16 – Other Information:

HMIS Hazard Rating:

Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Reactivity – 0 (minimal hazard)

Revision Date: July 20, 2014

Supersedes: May 23, 2014

Revision Summary: Convert to Hazcom 2012. Changes in all sections.

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

APPROVED By: I. Kowalski

Regulatory Affairs Dept.

5049000/No.0015205

SAFETY DATA SHEET

GC55103/GC55903

Section 1. Identification

Product name : Geocel® 4500™ Roof Bonding Sealant Black

Product code : GC55103/GC55903

Other means of identification : Not available.

Product type : Liquid.

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

Not applicable.

Manufacturer : Geocel Products Group
A Business Unit of the Sherwin-Williams Company
101 W. Prospect Avenue
Cleveland, Ohio 44115

Emergency telephone number of the company : US / Canada: (216) 566-2917
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Product Information Telephone Number : US / Canada: (800) 348-7615
Mexico: Not Available

Regulatory Information Telephone Number : US / Canada: (216) 566-2902
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (216) 566-2917
Mexico: SETIQ 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 : SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION (Unborn child) - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 59.2%
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 60.5%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 59.2%

GHS label elements

Hazard pictograms :



Signal word : Danger

Section 2. Hazards identification

Hazard statements	: Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause cancer. May damage the unborn child. May cause respiratory irritation.
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. 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.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

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
Calcium Carbonate	57.48	1317-65-3
Polypropylene Glycol	15.4	25322-69-4
Aminoethylaminopropyltrimethoxysilane	1.3	1760-24-3
Carbon Black	0.5	1333-86-4
Dibutylbis(pentadionate)tin	0.4	22673-19-4
Crystalline Silica, respirable powder	0.15	14808-60-7

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

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

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : 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 : 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. 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 : May cause respiratory irritation.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

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
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 4. First aid measures

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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 : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

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

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill

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

Large spill

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

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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 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. 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. 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	Exposure limits
Calcium Carbonate	NIOSH REL (United States, 10/2016). TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction TWA: 10 mg/m ³ 10 hours. Form: Total OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Polypropylene Glycol	AIHA WEEL (United States, 10/2011). TWA: 10 mg/m ³ 8 hours. Form: Aerosol None.
Aminoethylaminopropyltrimethoxysilane	NIOSH REL (United States, 10/2016). TWA: 3.5 mg/m ³ 10 hours.
Carbon Black	TWA: 0.1 mg of PAHs/cm ³ 10 hours.

Section 8. Exposure controls/personal protection

Dibutylbis(pentadionate)tin	<p>OSHA PEL (United States, 6/2016). TWA: 3.5 mg/m³ 8 hours.</p> <p>ACGIH TLV (United States, 3/2016). TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction</p> <p>ACGIH TLV (United States, 3/2016). Absorbed through skin. TWA: 0.1 mg/m³, (as Sn) 8 hours. STEL: 0.2 mg/m³, (as Sn) 15 minutes.</p> <p>NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 0.1 mg/m³, (as Sn) 10 hours.</p> <p>OSHA PEL (United States, 6/2016). TWA: 0.1 mg/m³, (as Sn) 8 hours.</p> <p>OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO₂+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / (%SiO₂+2) 8 hours. Form: Respirable</p> <p>OSHA PEL (United States, 6/2016). TWA: 50 µg/m³ 8 hours. Form: Respirable dust</p> <p>ACGIH TLV (United States, 3/2016). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction</p> <p>NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust</p>
Crystalline Silica, respirable powder	<p>OSHA PEL (United States, 6/2016). TWA: 250 mppcf / (%SiO₂+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / (%SiO₂+2) 8 hours. Form: Respirable</p> <p>OSHA PEL (United States, 6/2016). TWA: 50 µg/m³ 8 hours. Form: Respirable dust</p> <p>ACGIH TLV (United States, 3/2016). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction</p> <p>NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust</p>

Occupational exposure limits (Canada)

Ingredient name	Exposure limits
Dibutylbis(pentadionate)tin	<p>CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 15 min OEL: 0.2 mg/m³, (as Sn) 15 minutes. 8 hrs OEL: 0.1 mg/m³, (as Sn) 8 hours.</p> <p>CA British Columbia Provincial (Canada, 7/2016). Absorbed through skin. TWA: 0.1 mg/m³, (as Sn) 8 hours. STEL: 0.2 mg/m³, (as Sn) 15 minutes.</p> <p>CA Québec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 0.1 mg/m³, (as Sn) 8 hours. STEV: 0.2 mg/m³, (as Sn) 15 minutes.</p> <p>CA Ontario Provincial (Canada, 7/2015). Absorbed through skin. TWA: 0.1 mg/m³, (as Sn) 8 hours.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 0.2 mg/m³, (measured as Sn) 15 minutes. TWA: 0.1 mg/m³, (measured as Sn) 8 hours.</p>

Occupational exposure limits (Mexico)

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Dibutylbis(pentadionate)tin	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. TWA: 0.1 mg/m ³ , (as Sn) 8 hours. STEL: 0.2 mg/m ³ , (as Sn) 15 minutes.

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

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

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : 8

Melting point : Not available.

Section 9. Physical and chemical properties

Boiling point	: Not available.
Flash point	: Closed cup: >93.3°C (>199.9°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not relevant/applicable due to nature of the product.
Vapor density	: Not available.
Relative density	: 1.59
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.205 cm ² /s (>20.5 cSt)
Molecular weight	: Not applicable.
<u>Aerosol product</u>	
Heat of combustion	: 8.338 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
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
Aminoethylaminopropyltrimethoxysilane	LD50 Oral	Rat	2413 mg/kg	-
Carbon Black	LD50 Oral	Rat	>15400 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Polypropylene Glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Aminoethylaminopropyltrimethoxysilane	Eyes - Severe irritant	Rabbit	-	15 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Carbon Black Crystalline Silica, respirable powder	-	2B 1	- Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Calcium Carbonate	Category 3	Not applicable.	Respiratory tract irritation
Dibutylbis(pentadionate)tin	Category 1	Not determined	thymus

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Dibutylbis(pentadionate)tin Crystalline Silica, respirable powder	Category 1 Category 1	Not determined Inhalation	thymus Not determined

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : May cause respiratory irritation.
Skin contact : Causes skin irritation. May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

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
reduced fetal weight
increase in fetal deaths
skeletal malformations
Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
Ingestion : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : May damage the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Date of issue/Date of revision

: 9/8/2017

Date of previous issue

: 4/18/2017

Version : 6

10/13

Route	ATE value
Oral Inhalation (vapors)	30464.9 mg/kg 345.3 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Polypropylene Glycol	Acute LC50 650000 µg/l Marine water	Fish - Menidia beryllina	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-

Section 14. Transport information

Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

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.
Ship type : Not available.
Pollution category : Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

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

Section 16. Other information

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

Health	*	3
Flammability		0
Physical hazards		1

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
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method

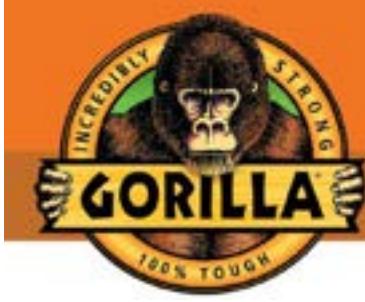
History

Section 16. Other information

Date of printing	:	9/8/2017
Date of issue/Date of revision	:	9/8/2017
Date of previous issue	:	4/18/2017
Version	:	6
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

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 Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. 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.



Safety Data Sheet - Gorilla Wood Glue

Date Revised: 03/23/2017
Date Issued: 8/26/2014

Version: 1.1

FOR CHEMICAL EMERGENCY:

During Business Hours: (800) 966-3458 | Outside Business Hours: (800) 420-7186

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

SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Gorilla Wood Glue

Synonyms: Polyvinyl Acetate Polymer product in water

Intended Use of the Product

Consumer Adhesives for building, carpentry, or hobby projects using any type of wood. It is water resistant (passes ANSI/HPVA Type II), sandable, and paintable.

Name, Address, and Telephone of the Responsible Party

Company

The Gorilla Glue Company
2101 E. Kemper Road
Cincinnati, Ohio 45241
513-271-3300

www.gorillatough.com

Emergency Telephone Number

Emergency number : 1-800-420-7186 (Prosar)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US) Not Classified

Label Elements

GHS-US Labeling No labeling applicable

Other Hazards

Other Hazards: Not available

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	49 - 52	Not Classified
Vinyl acetate polymer	Trade Secret	48 - 51	Not Classified
Aluminum chloride, hexahydrate	(CAS No) 7784-13-6	< 4	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400
2-Propanol, 1-phenoxy-	(CAS No) 770-35-4	< 1.5	Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.



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Most Important Symptoms and Effects Both Acute and Delayed

General: May cause irritation.

Inhalation: None expected under normal conditions of use.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not available

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product in solution form does not burn. The product will burn only after the water in it is driven off. For the dry polymer, use alcohol resistant foam, carbon dioxide or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Do not allow run-off from fire fighting to enter drains or water courses.

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

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Oxides of aluminum. Chlorine gas.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Contaminated surfaces will become very slippery.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry. Dispose of in accordance with local, state, territorial, provincial, federal and international regulations.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Handling Temperature: > 10 °C (50 °F)



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Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Maximum Storage Period: Varies depending on storage conditions. For best results, protect from frost and do not store in heat or direct sunlight. Keep tightly sealed and between temperatures 10 and 35°C (50 and 95°F).

Specific End Use(s) Consumer Adhesives for building, carpentry, or hobby projects using any type of wood. It is water resistant (passes ANSI/HPVA Type II), sandable, and paintable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

There are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective clothing. Safety glasses. Gloves.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus when using in a poorly ventilated area.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Appearance	:	Light Tan, Milky
Odor	:	Sweet
Odor Threshold	:	Not available
pH	:	2.5 - 3.5
Relative Evaporation Rate (butylacetate=1)	:	Not available
Melting/Freezing Point	:	Not available
Boiling Point	:	100 °C (212 °F)
Flash Point	:	Not available
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Upper and Lower Flammable Limits	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20 °C	:	Not available



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Specific Gravity/Relative Density	:	1.08 g/cm ³ @ 25 °C (77 °F)
Solubility	:	Not available
Partition coefficient: n-octanol/water	:	Not available
Viscosity, Dynamic	:	4000 - 6000 cP @ 25 °C (77 °F)
Explosion Data – Sensitivity to Mechanical Impact	:	Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	:	Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Oxides of aluminum. Chlorine.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

pH: 2.5 - 3.5

Serious Eye Damage/Irritation: Not classified

pH: 2.5 - 3.5

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: None expected under normal conditions of use.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not applicable

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

2-Propanol, 1-phenoxy- (770-35-4)

LD50 Oral Rat	2830 mg/kg
LD50 Dermal Rat	> 2000

Vinyl acetate polymer (Trade Secret)

IARC Group	3
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SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not available

Persistence and Degradability Not available

Bioaccumulative Potential Not available

Mobility in Soil Not available



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Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT Not regulated for transport
In Accordance with IMDG Not regulated for transport
In Accordance with IATA Not regulated for transport
In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Water (7732-18-5)

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

Vinyl acetate-Vinyl alcohol polymer (25213-24-5)

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

2-Propanol, 1-phenoxy- (770-35-4)

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

US State Regulations

Neither this product nor its chemical components appear on any US state lists.

Canadian Regulations

Gorilla Wood Glue

WHMIS Classification | Uncontrolled product according to WHMIS classification criteria

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification | Uncontrolled product according to WHMIS classification criteria

Vinyl acetate polymer (Trade Secret)

Listed on the Canadian DSL (Domestic Substances List)

Aluminum chloride, hexahydrate (7784-13-6)

WHMIS Classification | Class E – Corrosive Material

2-Propanol, 1-phenoxy- (770-35-4)

Listed on the Canadian DSL (Domestic Substances List)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 03/23/2017

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3



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H315	May skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

Party Responsible for the Preparation of This Document

The Gorilla Glue Company

+1 513-271-3300

The information presented in this Safety Data Sheet was prepared by qualified personnel and to the best of our knowledge is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. This data does not constitute a warranty, expressed or implied, statutory or otherwise, nor is it representation for which The Gorilla Glue Company assumes legal responsibility. The data is submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with applicable federal, state, provincial and local laws and regulations.

North America GHS US 2012 & WHMIS



SAFETY DATA SHEET

Revision Date 10-Apr-2015

Version 1

1. IDENTIFICATION

Product identifier

Product Name Gumout Jet Spray Carb and Choke Cleaner

Other means of identification

Product Code 600951

Document SKU: 800002230, 800002231, 800002241

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Carburetor Cleaner Consumer Use

Uses advised against All other applications

Details of the supplier of the safety data sheet

Supplier Address

ITW Global Brands
6925 Portwest Dr., Suite 100
Houston, TX 77024

Manufacturer Address

Distributor

Company Phone Number

1-855-888-1988

24 Hour Emergency Phone Number (CHEMTREC) 1-800-424-9300 or 1-703-527-3887 (U.S.)
(RMPDC) 1-877-504-9352 (U.S.)

E-mail address

SDS@itwgb.com

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable aerosols	Category 1
Gases under pressure	Compressed gas

Label elements

Emergency Overview

Danger

Causes serious eye irritation
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
Extremely flammable aerosol
Contains gas under pressure; may explode if heated

**Appearance** Colorless**Physical state** Liquid Flammable Aerosol**Odor** Alcohol**Precautionary Statements - Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Wear eye/face protection
 Do not breathe dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Do not puncture or incinerate container
 Contents under pressure and can explode when exposed to heat or open flame
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed
 Do not expose to temperatures exceeding 122 °F (50 °C)
 Keep away from heat, sparks, flames and other ignition sources
 Keep out of reach of children

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- Causes mild skin irritation
- May be harmful if inhaled or swallowed
- Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS**substance(s)**

Chemical Name	CAS No	Weight-%	Trade Secret
ACETONE	67-64-1	60 - 100	*
TOLUENE	108-88-3	5 - 10	*
CARBON DIOXIDE	124-38-9	5 - 10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	Get medical advice/attention if you feel unwell.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact	IF ON SKIN: Wash skin with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
Ingestion	IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms	See section 2 for more information.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Dry chemical, CO₂, sand, earth, water spray or regular foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

Extremely flammable. Contents under pressure and can explode when exposed to heat or flames. Vapors may cause flash fire.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and inhalation of vapors. Use personal protective equipment as required. Remove all sources of ignition.
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Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.
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Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Keep away from sunlight, ignition sources and other sources of heat. Do not expose to temperatures exceeding 50 °C/122 °F. Keep out of the reach of children.
Incompatible materials	Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ACETONE 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 2400 mg/m ³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³
TOLUENE 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³
CARBON DIOXIDE 124-38-9	STEL: 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m ³ (vacated) TWA: 10000 ppm (vacated) TWA: 18000 mg/m ³ (vacated) STEL: 30000 ppm (vacated) STEL: 54000 mg/m ³	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
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Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems
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Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
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Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid; Flammable Aerosol	
Appearance	Colorless	
Odor	Alcohol	
Odor threshold	No information available	
Property	Values	Remarks • Method
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	56 °C / 133 °F	
Flash point	-20 °C / -4 °F	Tag Closed Cup
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	2.6	
Lower flammability limit:	12.8	
Vapor pressure	185	
Vapor density	No information available	
Relative density	0.798	
Water solubility	Miscible in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	465 °C / 869 °F	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	9.8%
Density	0.797 g/cm3
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal use

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Keep away from all heat sources, open flames and other sources of ignition.

Incompatible materials

Strong oxidizing agents

Hazardous Decomposition Products

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Harmful by inhalation.
Eye contact	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.
Skin contact	May cause skin irritation and/or dermatitis.
Ingestion	Ingestion may cause irritation to mucous membranes. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ACETONE 67-64-1	= 5800 mg/kg (Rat)	-	= 50100 mg/m ³ (Rat) 8 h
TOLUENE 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms	No information available.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.			
Germ cell mutagenicity	No information available.			
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.			
Chemical Name	ACGIH	IARC	NTP	OSHA
TOLUENE 108-88-3	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Chronic toxicity

May cause adverse liver effects.

Target Organ Effects

Central nervous system, Central Vascular System (CVS), Eyes, kidney, Liver, Respiratory system, Skin.

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

ATEmix (oral)	5526 mg/kg
ATEmix (dermal)	122449 mg/kg
ATEmix (inhalation-dust/mist)	62 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ACETONE 67-64-1	-	4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50

TOLUENE 108-88-3	433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 54: 96 h Oryzias latipes mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static	5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50
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Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

Disperses in water.

Chemical Name	Partition coefficient
ACETONE 67-64-1	-0.24
TOLUENE 108-88-3	2.65

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes Recover or recycle if possible. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number U002 U220

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
ACETONE 67-64-1	-	Included in waste stream: F039	-	U002
TOLUENE 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151	-	U220

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
TOLUENE 108-88-3	-	-	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic	-

			hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	
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This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
ACETONE 67-64-1	Ignitable
TOLUENE 108-88-3	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

UN/ID no UN 1950
Proper shipping name: Aerosols, Consumer Commodity, Limited Quantity (LQ)
Hazard Class 2.1

IATA

UN/ID no UN 1950
Proper shipping name: Aerosols, Consumer commodity, Limited Quantity (LQ)
Hazard Class 2.1

IMDG

UN/ID no UN 1950
Proper shipping name: Aerosols, Consumer Commodity, Limited Quantity (LQ)
Hazard Class 2.1

15. REGULATORY INFORMATION

International Inventories

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

Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product 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 %
TOLUENE - 108-88-3	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

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
TOLUENE 108-88-3	1000 lb	X	X	X

CERCLA

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

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
ACETONE 67-64-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
TOLUENE 108-88-3	1 lb	-	RQ 1 lb final RQ RQ 0.454 kg final RQ

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
TOLUENE - 108-88-3	Developmental Female Reproductive

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ACETONE 67-64-1	X	X	X
TOLUENE 108-88-3	X	X	X
CARBON DIOXIDE 124-38-9	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

Non-controlled

NFPA	Health hazards 2	Flammability 3	Instability 0	-
HMIS	Health hazards 2	Flammability 3	Physical hazards 1	Personal protection B

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

Revision Date 10-Apr-2015

Revision Note

4

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

 Close this window

SDS

Common Name: STABIL FUEL STABILIZER - STORAGE**Manufacturer:** GOLD EAGLE**SDS Revision Date:** 9/17/2015**SDS Format:** GHS-US**Item Number(s):** 2AEP2, 2AEP3, 2AEP4, 2AEP5**Manufacturer Model Number(s):**

SDS Table of Contents

Click the desired link below to jump directly to that section in the SDS.

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STABIL(R*) FUEL STABILIZER - STORAGE

SAFETY DATA SHEET

GOLD EAGLE (R*)

SECTION 1 - IDENTIFICATION

PRODUCT IDENTIFIER:

PRODUCT NAME: STABIL(R*) FUEL STABILIZER - STORAGE

SYNONYMS: 590025

PRODUCT CODE:

22204; 22205; 22206; 22207; 22208; 22209; 22211; 22213; 22214; 22215; 22216; 22218; 22219; 22234; 22249; 22256; 22258; 22259; 22261; 22280; 22287; 22289; 22298; 22803; 22807; 22808; 22809; 22810; 22812

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

RECOMMENDED USE: FUEL STABILIZER

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RESTRICTIONS ON USE: DO NOT USE IN DIESEL FUEL

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

MANUFACTURER:

GOLD EAGLE CO.

4400 S. KILDARE AVENUE

CHICAGO, IL 60632-4372

UNITED STATES

HTTP://WWW.GOLDEAGLE.COM/

TELEPHONE (GENERAL): 773-376-4400

EMERGENCY TELEPHONE NUMBER:

MANUFACTURER: 1-800-535-5053 - (INFOTRAC #22283)

SECTION 2 - HAZARD IDENTIFICATION



UNITED STATES (US):

ACCORDING TO: OSHA 29 CFR 1910.1200 HCS

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

OSHA HCS 2012:

FLAMMABLE LIQUIDS 4

ASPIRATION 1

SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE 3: NARCOTIC EFFECTS

CARCINOGENICITY 2

REPRODUCTIVE TOXICITY 2

LABEL ELEMENTS:

OSHA HCS 2012:

DANGER:

EXCLAMATION MARK

HEALTH HAZARD

HAZARD STATEMENTS:

COMBUSTIBLE LIQUID

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

MAY CAUSE DROWSINESS OR DIZZINESS

SUSPECTED OF CAUSING CANCER.

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

PRECAUTIONARY STATEMENTS:

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 AND/OR HOT SURFACES. - NO SMOKING.

AVOID BREATHING MIST/VAPOURS/SPRAY.

USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

RESPONSE:

IN CASE OF FIRE: USE APPROPRIATE MEDIA FOR EXTINCTION.

IF INHALED:

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.

IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

DO NOT INDUCE VOMITING.

IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.

STORAGE/DISPOSAL:

STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

KEEP COOL.

STORE LOCKED UP.

DISPOSE OF CONTENT AND/OR CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND/OR INTERNATIONAL REGULATIONS.

OTHER HAZARDS:

OSHA HCS 2012:

UNDER UNITED STATES REGULATIONS (29 CFR 1910.1200 - HAZARD COMMUNICATION STANDARD), THIS PRODUCT IS CONSIDERED HAZARDOUS.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS



SUBSTANCES: MATERIAL DOES NOT MEET THE CRITERIA OF A SUBSTANCE.

MIXTURES:

COMPOSITION:

CHEMICAL NAME	IDENTIFIERS	%
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	CAS: 64742-47-8	90% TO 100%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 4%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 1.197%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 1%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.897%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.6%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.375%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.3%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.151%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.147%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.05%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.05%
PROPRIETARY ADDITIVE	PROPRIETARY	0% TO 0.05%
PROPRIETARY ADDITIVE	PROPRIETARY	<0.00000015%

CHEMICAL NAME	LD50/LC50	CLASSIFICATIONS ACCORDING TO REGULATION/DIRECTIVE
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DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	NDA	OSHA HCS 2012: FLAM. LIQ. 4; ASP. TOX. 1 STOT SE 3: NARC.
PROPRIETARY ADDITIVE	NDA	OSHA HCS 2012: NOT CLASSIFIED
PROPRIETARY ADDITIVE	INHALATION-RAT LC50: >590 MG/M3 4 HOUR(S)	OSHA HCS 2012: NOT CLASSIFIED
	SKIN-RABBIT LD50: >2 ML/KG	
PROPRIETARY ADDITIVE	INHALATION-RAT LC50: 450 PPM 4 HOUR(S)	OSHA HCS 2012: EYE IRRIT. 2
	SKIN-RABBIT LD50: 220 MG/KG	STOT SE 3: NARC.;
	INGESTION/ORAL-RAT LD50: 250 MG/KG	ACUTE TOX. 4 (ORAL); ACUTE TOX. 3 (SKN); REPR. 2
PROPRIETARY ADDITIVE	NDA	OSHA HCS 2012: NOT CLASSIFIED
PROPRIETARY ADDITIVE	NDA	OSHA HCS 2012: NOT CLASSIFIED
PROPRIETARY ADDITIVE	INGESTION/ORAL-RAT LD50: 5 G/KG	OSHA HCS 2012: FLAM. LIQ. 3;
	INHALATION-RAT LC50: 18000 MG/M3 4 HOUR(S)	STOT SE 3: NARC.; STOT RE 2 (BLOOD)
PROPRIETARY ADDITIVE	INGESTION/ORAL-RAT LD50: 8400 MG/KG	OSHA HCS 2012: EYE IRRIT. 2; REPR. 2;
		STOT SE 3: NARC.
PROPRIETARY ADDITIVE	SKIN-RABBIT LD50: >20 G/KG	OSHA HCS 2012: FLAM. SOL. 2; ACUTE TOX. 4 (ORAL); SKIN IRRIT. 2; MUTA. 2; CARC. 2; REPR. 2;
		STOT SE 3: NARC.; STOT RE 1 (BLOOD, EYES, ORAL, INHL)
PROPRIETARY ADDITIVE	NDA	OSHA HCS 2012: NOT CLASSIFIED
PROPRIETARY ADDITIVE	INGESTION/ORAL-RAT LD50: 4300 MG/KG	OSHA HCS 2012: EXPOSURE LIMIT(S)
	INHALATION-RAT LC50: 5000 PPM 4 HOUR(S)	
	SKIN-RABBIT LD50: >1700 MG/KG	

PROPRIETARY ADDITIVE	NDA	OSHA HCS 2012: EXPOSURE LIMIT (S)
PROPRIETARY ADDITIVE	INHALATION-RAT LC50: 24000 MG/M3 4 HOUR(S)	OSHA HCS 2012: EXPOSURE LIMIT (S)
	INGESTION/ORAL-RAT LD50: 5000 MG/KG	
PROPRIETARY ADDITIVE	INGESTION/ORAL-RAT LD50: 930 MG/KG	OSHA HCS 2012: EXPOSURE LIMIT (S)
	INHALATION-RAT LC50: 10000 PPM 7 HOUR(S)	
	SKIN-RABBIT LD50: >9400 (MICRO) L/KG	

SECTION 4 - FIRST-AID MEASURES



DESCRIPTION OF FIRST AID MEASURES:

INHALATION:

MOVE VICTIM TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF VICTIM IS NOT BREATHING. IF SIGNS/SYMPOTMS CONTINUE, GET MEDICAL ATTENTION.

SKIN:

IN CASE OF BURNS, IMMEDIATELY COOL AFFECTED SKIN FOR AS LONG AS POSSIBLE WITH COLD WATER. DO NOT REMOVE CLOTHING IF ADHERING TO SKIN. REMOVE AND ISOLATE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER.

EYE:

HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15-20 MINUTES. REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST FIVE MINUTES, THEN CONTINUE RINSING EYE. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

REFER TO SECTION 11 - TOXICOLOGICAL INFORMATION.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTES TO PHYSICIAN:

ALL TREATMENTS SHOULD BE BASED ON OBSERVED SIGNS AND SYMPTOMS OF DISTRESS IN THE PATIENT. CONSIDERATION SHOULD BE GIVEN TO THE POSSIBILITY THAT OVEREXPOSURE TO MATERIALS OTHER THAN THIS PRODUCT MAY HAVE OCCURRED.

SECTION 5 - FIRE-FIGHTING MEASURES



EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:

USE CARBON DIOXIDE, DRY CHEMICAL, FOAM AND/OR WATER FOG.

UNSUITABLE EXTINGUISHING MEDIA:

NO DATA AVAILABLE

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS MAY EXPLODE WHEN HEATED.

VAPOR EXPLOSION HAZARD INDOORS, OUTDOORS OR IN SEWERS.

COMBUSTIBLE MATERIAL: MAY BURN BUT DOES NOT IGNITE READILY.

MANY LIQUIDS ARE LIGHTER THAN WATER.

MOST VAPORS ARE HEAVIER THAN AIR. THEY WILL SPREAD ALONG GROUND AND COLLECT IN LOW OR CONFINED AREAS (SEWERS, BASEMENTS, TANKS).

RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR.

VAPORS MAY TRAVEL TO SOURCE OF IGNITION AND FLASH BACK.

WATER MAY CAUSE FROTHING.

HAZARDOUS COMBUSTION PRODUCTS: NO DATA AVAILABLE

ADVICE FOR FIREFIGHTERS:

STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING WILL ONLY PROVIDE LIMITED PROTECTION.

WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA).

MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK.

LARGE FIRES:

COOL CONTAINERS WITH FLOODING QUANTITIES OF WATER UNTIL WELL AFTER FIRE IS OUT.

SECTION 6 - ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PRECAUTIONS:

DO NOT WALK THROUGH SPILLED MATERIAL. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING.

EMERGENCY PROCEDURES:

AS AN IMMEDIATE PRECAUTIONARY MEASURE, ISOLATE SPILL OR LEAK AREA FOR AT LEAST 50 METERS (150 FEET) IN ALL DIRECTIONS. IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN A FIRE, ISOLATE FOR 800 METERS (1/2 MILE) IN ALL DIRECTIONS; ALSO, CONSIDER INITIAL EVACUATION FOR 800 METERS (1/2 MILE) IN ALL DIRECTIONS.

LARGE SPILL:

CONSIDER INITIAL DOWNDOWN EVACUATION FOR AT LEAST 300 METERS (1000 FEET) ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES IN IMMEDIATE AREA). KEEP UNAUTHORIZED PERSONNEL AWAY. STAY UPWIND. KEEP OUT OF LOW AREAS. VENTILATE CLOSED SPACES BEFORE ENTERING.

ENVIRONMENTAL PRECAUTIONS:

PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

CONTAINMENT/CLEAN-UP MEASURES:

STOP LEAK IF YOU CAN DO IT WITHOUT RISK.

ABSORB OR COVER WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS.

USE CLEAN NON-SPARKING TOOLS TO COLLECT ABSORBED MATERIAL.

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A VAPOR SUPPRESSING FOAM MAY BE USED TO REDUCE VAPORS.

ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED.

LARGE SPILLS: DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL.

LARGE SPILLS:

WATER SPRAY MAY REDUCE VAPOR; BUT MAY NOT PREVENT IGNITION IN CLOSED SPACES.

SECTION 7 - HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING:

HANDLING:

USE ONLY IN WELL VENTILATED AREAS. AVOID CONTACT WITH HEAT AND IGNITION SOURCES. TAKE PRECAUTIONARY MEASURES AGAINST STATIC CHARGES. DO NOT USE SPARKING TOOLS. ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, AVOID DIRECT CONTACT. AVOID BREATHING. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, OR USING TOBACCO.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE:

STORE IN A TIGHTLY CLOSED CONTAINER. KEEP AWAY FROM INCOMPATIBLE MATERIALS. STORE IN A WELL-VENTILATED PLACE. STORE IN AN AREA EQUIPPED WITH AUTOMATIC SPRINKLERS OR FIRE EXTINGUISHING SYSTEM. STORE BELOW 150 DEG. F. EMPTY CONTAINERS CONTAIN PRODUCT RESIDUES, ASSUME EMPTIED CONTAINERS TO HAVE SAME HAZARDS AS FULL CONTAINERS.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL



PROTECTION CONTROL PARAMETERS:

EXPOSURE LIMITS/GUIDELINES:

	RESULT	ACGIH	NIOSH	OSHA
PROPRIETARY ADDITIVE (PROPRIETARY)	TWAS	50 PPM TWA 245 MG/M3 TWA	50 PPM TWA 245 MG/M3 TWA	50 PPM TWA 245 MG/M3 TWA
PROPRIETARY ADDITIVE (PROPRIETARY)	TWAS	10 PPM TWA 50 MG/M3 TWA	10 PPM TWA 50 MG/M3 TWA	10 PPM TWA 50 MG/M3 TWA
	STELs	15 PPM STEL 75 MG/M3 STEL	15 PPM STEL 75 MG/M3 STEL	NOT ESTABLISHED
PROPRIETARY ADDITIVE (PROPRIETARY)	TWAS	20 PPM TWA 24 MG/M3 TWA	5 PPM TWA 24 MG/M3 TWA	50 PPM TWA 240 MG/M3 TWA
PROPRIETARY ADDITIVE (PROPRIETARY)	TWAS	100 PPM TWA 150 PPM STEL	NOT ESTABLISHED	100 PPM TWA 435 MG/M3 TWA
	STELs	NOT ESTABLISHED	NOT ESTABLISHED	NOT ESTABLISHED
PROPRIETARY ADDITIVE (PROPRIETARY)	TWAS	NOT ESTABLISHED	25 PPM TWA 125 MG/M3 TWA	NOT ESTABLISHED
PROPRIETARY ADDITIVE	TWAS	NOT	25 PPM TWA	NOT

(PROPRIETARY)		ESTABLISHED	125 MG/M3 TWA	ESTABLISHED
PROPRIETARY ADDITIVE (PROPRIETARY)	TWAS	NOT ESTABLISHED	25 PPM TWA 125 MG/M3 TWA	NOT ESTABLISHED
PROPRIETARY ADDITIVE (PROPRIETARY)	CEILINGS	NOT ESTABLISHED	NOT ESTABLISHED	25 PPM CEILING
	STELs	2.5 PPM STEL	1 PPM STEL	5 PPM STEL (SEE 29 CFR 1910.1028)
	TWAS	0.5 PPM TWA	0.1 PPM TWA	10 PPM TWA (APPLIES TO INDUSTRY SEGMENTS EXEMPT FROM THE BENZENE STANDARD AT 29 CFR 1910.1028); 1 PPM TWA

EXPOSURE CONTROLS:

ENGINEERING MEASURES/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. USE ONLY APPROPRIATELY CLASSIFIED ELECTRICAL EQUIPMENT.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY:

IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134. USE A NIOSH/MSHA APPROVED RESPIRATOR IF EXPOSURE LIMITS ARE EXCEEDED OR SYMPTOMS ARE EXPERIENCED.

EYE/FACE: WEAR CHEMICAL SPLASH SAFETY GOGGLES.

SKIN/BODY: WEAR APPROPRIATE GLOVES.

ENVIRONMENTAL EXPOSURE CONTROLS:

CONTROLS SHOULD BE ENGINEERED TO PREVENT RELEASE TO THE ENVIRONMENT, INCLUDING PROCEDURES TO PREVENT SPILLS, ATMOSPHERIC RELEASE AND RELEASE TO WATERWAYS. FOLLOW BEST PRACTICE FOR SITE MANAGEMENT AND DISPOSAL OF WASTE.

KEY TO ABBREVIATIONS:

ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENE

NIOSH = NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH

OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

STEL = SHORT TERM EXPOSURE LIMITS ARE BASED ON 15-MINUTE EXPOSURES

TWA = TIME-WEIGHTED AVERAGES ARE BASED ON 8H/DAY, 40H/WEEK EXPOSURES

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES



INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES:

MATERIAL DESCRIPTION:

PHYSICAL FORM: LIQUID

APPEARANCE/DESCRIPTION: RED LIQUID WITH A SOLVENT ODOR.

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COLOR: RED

ODOR: SOLVENT

ODOR THRESHOLD: NO DATA AVAILABLE

GENERAL PROPERTIES:

BOILING POINT: 180 F (82.2222 C)

MELTING POINT/FREEZING POINT: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE

PH: NO DATA AVAILABLE

SPECIFIC GRAVITY/RELATIVE DENSITY: =0.8 WATER=1

WATER SOLUBILITY: NEGLIGIBLE <0.1%

VISCOSITY: 3 CENTISTOKE (CST, CS) OR MM2/SEC @ 40 C(104 F)

EXPLOSIVE PROPERTIES: NO DATA AVAILABLE

OXIDIZING PROPERTIES: NO DATA AVAILABLE

VOLATILITY:

VAPOR PRESSURE: 97 MMHg (TORR)

VAPOR DENSITY: >1 AIR=1

EVAPORATION RATE: >1 N-BUTYL ACETATE = 1

VOC (WT.): 100%

VOLATILES (VOL.): 100%

FLAMMABILITY:

FLASH POINT: >141.5 F (>60.8333 C)

UEL: 0.8%

LEL: 7%

AUTOIGNITION: NO DATA AVAILABLE

FLAMMABILITY (SOLID, GAS): NOT RELEVANT.

ENVIRONMENTAL:

OCTANOL/WATER PARTITION COEFFICIENT: NO DATA AVAILABLE

SECTION 10 - STABILITY AND REACTIVITY



REACTIVITY: NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.

CHEMICAL STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

POSSIBILITY OF HAZARDOUS REACTIONS:

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS TO AVOID: EXCESS HEAT. INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS: STRONG OXIDANTS.

HAZARDOUS DECOMPOSITION PRODUCTS:
EXCESSIVE HEATING AND/OR INCOMPLETE COMBUSTION WILL PRODUCE CARBON MONOXIDE.

SECTION 11 - TOXICOLOGICAL INFORMATION



INFORMATION ON TOXICOLOGICAL EFFECTS:

COMPONENTS:

PROPRIETARY ADDITIVE (0% TO 1.197%) PROPRIETARY:

ACUTE TOXICITY:

INGESTION/ORAL-RAT LD₅₀: 5 ML/KG

SENSE ORGANS AND SPECIAL SENSES:

OLFACTION: OTHER CHANGES

SENSE ORGANS AND SPECIAL SENSES:

EYE: OTHER

SKIN AND APPENDAGES: OTHER. HAIR

INHALATION-RAT LC₅₀: >590 MG/M₃ 4 HOUR(S)

SKIN-RABBIT LD₅₀: >2 ML/KG

BEHAVIORAL: SOMNOLENCE (GENERAL DEPRESSED ACTIVITY)

BEHAVIORAL: CHANGES IN MOTOR ACTIVITY (SPECIFIC ASSAY)

BEHAVIORAL: IRRITABILITY

IRRITATION:

SKIN-RABBIT: 500 GL 24 HOUR(S) - MILD IRRITATION

PROPRIETARY ADDITIVE (0% TO 0.151%) PROPRIETARY:

ACUTE TOXICITY:

INGESTION/ORAL-GUINEA PIG LD₅₀: 1200 MG/KG

BEHAVIORAL: SOMNOLENCE (GENERAL DEPRESSED ACTIVITY)

BEHAVIORAL: CHANGES IN MOTOR ACTIVITY (SPECIFIC ASSAY)

INGESTION/ORAL-RAT LD₅₀: 490 MG/KG

INGESTION/ORAL-MOUSE TD₅₀: 158 MG/KG

BRAIN AND COVERINGS: OTHER DEGENERATIVE CHANGES

LIVER: OTHER CHANGES

BIOCHEMICAL:

METABOLISM (INTERMEDIARY): LIPIDS, INCLUDING TRANSPORT

INHALATION-HUMAN TC₅₀: 250 MG/M₃

SENSE ORGANS AND SPECIAL SENSES:

EYE: LACRIMATION

BEHAVIORAL: HEADACHE

SKIN-RABBIT LD₅₀: >20 G/KG

IRRITATION:

SKIN-RABBIT: 0.05 ML 24 HOUR(S) -SEVERE IRRITATION

MULTI-DOSE TOXICITY:

INGESTION/ORAL-RAT TDLO: 500 MG/KG 10 DAY(S) -INTERMITTENT

BEHAVIORAL: SLEEP

LUNGS, THORAX, OR RESPIRATION: DYSPNEA

INGESTION/ORAL-RAT TDLO: 4500 MG/KG 10 DAY(S) -INTERMITTENT

BRAIN AND COVERINGS: OTHER DEGENERATIVE CHANGES

REPRODUCTIVE:

INGESTION/ORAL-MOUSE TDLO: 2400 MG/KG (7-14D PREG)

REPRODUCTIVE EFFECTS:

EFFECTS ON NEWBORN: LIVE BIRTH INDEX

REPRODUCTIVE EFFECTS:

EFFECTS ON NEWBORN:

VIABILITY INDEX (E.G., # ALIVE AT DAY 4 PER # BORN ALIVE)

INGESTION/ORAL-RAT TDLO: 4500 MG/KG (6-15D PREG)

REPRODUCTIVE EFFECTS:

EFFECTS ON EMBRYO OR FETUS:

FETOTOXICITY (EXCEPT DEATH, E.G., STUNTED FETUS)

REPRODUCTIVE EFFECTS:

SPECIFIC DEVELOPMENTAL ABNORMALITIES: OTHER DEVELOPMENTAL ABNORMALITIES

TUMORIGEN / CARCINOGEN:

INHALATION-MOUSE TCLO: 30 PPM 6 HOUR(S) 2 YEAR(S) -INTERMITTENT

TUMORIGENIC: NEOPLASTIC BY RTECS CRITERIA

LUNGS, THORAX, OR RESPIRATION: TUMORS

INHALATION-RAT TCLO: 1575 MG/KG 105 WEEK(S) -INTERMITTENT

TUMORIGENIC: CARCINOGENIC BY RTECS CRITERIA

SENSE ORGANS AND SPECIAL SENSES:

OLFACTION: TUMORS

INHALATION-RAT TCLO: 60 PPM 6 HOUR(S) 105 WEEK(S) -INTERMITTENT

TUMORIGENIC: CARCINOGENIC BY RTECS CRITERIA

SENSE ORGANS AND SPECIAL SENSES:

OLFACTION: TUMORS

PROPRIETARY ADDITIVE (0% TO 0.375%) PROPRIETARY:

ACUTE TOXICITY:

INGESTION/ORAL-RAT LD50: 5 G/KG

INHALATION-RAT LC50: 18000 MG/MP 4 HOUR(S)

MULTI-DOSE TOXICITY:

INHALATION-RAT TCLO: 100 PPM 6 HOUR(S) 20 DAY(S) -INTERMITTENT

BEHAVIORAL: CHANGES IN MOTOR ACTIVITY (SPECIFIC ASSAY)

BEHAVIORAL: ANALGESIA

BEHAVIORAL: ALTERATION OF OPERANT CONDITIONING

PROPRIETARY ADDITIVE (0% TO 0.3%) PROPRIETARY:

ACUTE TOXICITY:

INGESTION/ORAL-RAT LD50: 8400 MG/KG

BEHAVIORAL: SOMNOLENCE (GENERAL DEPRESSED ACTIVITY)

BEHAVIORAL: TREMOR

LUNGS, THORAX, OR RESPIRATION: OTHER CHANGES

IRRITATION:

EYE-RABBIT: 100 (MICRO)L 24 HOUR(S) - MILD IRRITATION

REPRODUCTIVE:

INHALATION-MOUSE TCLO: 1500 PPM 6 HOUR(S) (6-15D PREG)

REPRODUCTIVE EFFECTS:

EFFECTS ON FERTILITY: POST-IMPLANTATION MORTALITY

REPRODUCTIVE EFFECTS:

EFFECTS ON FERTILITY:

LITTER SIZE (E.G., # FETUSES PER LITTER; MEASURED BEFORE BIRTH)

REPRODUCTIVE EFFECTS:

EFFECTS ON EMBRYO OR FETUS:

FETOTOXICITY (EXCEPT DEATH, E.G., STUNTED FETUS)

PROPRIETARY ADDITIVE (0% TO 1%) PROPRIETARY:

ACUTE TOXICITY:

INGESTION/ORAL-RAT LD50: 917 MG/KG

LIVER: OTHER CHANGES

KIDNEY, URETER, AND BLADDER: OTHER CHANGES

BLOOD: OTHER HEMOLYSIS WITH OR WITHOUT ANEMIA

INHALATION-RAT LC50: 2900 MG/MP 7 HOUR(S)

LIVER: OTHER CHANGES

KIDNEY, URETER, AND BLADDER: OTHER CHANGES

BLOOD: OTHER HEMOLYSIS WITH OR WITHOUT ANEMIA

SKIN-RABBIT LD50: 220 MG/KG

IRRITATION:

EYE-RABBIT: 100 MG - SEVERE IRRITATION

SKIN-RABBIT: 500 MG-OPEN - MILD IRRITATION

MULTI-DOSE TOXICITY:

INGESTION/ORAL-RAT TDLO: 300 MG/KG 3 DAY(S) -INTERMITTENT

BLOOD: NORMOCYTIC ANEMIA

BLOOD: OTHER HEMOLYSIS WITH OR WITHOUT ANEMIA

INHALATION-RAT TCLO: 432 PPM 7 HOUR(S) 30 DAY(S) - INTERMITTENT

KIDNEY, URETER, AND BLADDER: HEMATURIA

BLOOD: OTHER CHANGES

RELATED TO CHRONIC DATA: DEATH IN THE OTHER MULTIPLE DOSE DATA TYPE FIELD

REPRODUCTIVE:

INGESTION/ORAL-RAT TDLO: 600 MG/KG (9-11D PREG)

REPRODUCTIVE EFFECTS:

EFFECTS ON EMBRYO OR FETUS: FETAL DEATH

TUMORIGEN / CARCINOGEN:

INHALATION-MOUSE TCLO: 250 PPM 6 HOUR(S) 2 YEAR(S) -INTERMITTENT

TUMORIGENIC: CARCINOGENIC BY RTECS CRITERIA

LIVER: TUMORS

GHS PROPERTIES	CLASSIFICATION
RESPIRATORY SENSITIZATION	OSHA HCS 2012: DATA LACKING
SERIOUS EYE DAMAGE/IRRITATION	OSHA HCS 2012: DATA LACKING
ACUTE TOXICITY	OSHA HCS 2012: DATA LACKING
ASPIRATION HAZARD	OSHA HCS 2012: ASPIRATION 1
CARCINOGENICITY	OSHA HCS 2012: CARCINOGENICITY 2
SKIN CORROSION/IRRITATION	OSHA HCS 2012: DATA LACKING
SKIN SENSITIZATION	OSHA HCS 2012: DATA LACKING
STOT-RE	OSHA HCS 2012: DATA LACKING
STOT-SE	OSHA HCS 2012: SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE 3: NARCOTIC EFFECTS
TOXICITY FOR REPRODUCTION	OSHA HCS 2012: TOXIC TO REPRODUCTION 2
GERM CELL MUTAGENICITY	OSHA HCS 2012: DATA LACKING

POTENTIAL HEALTH EFFECTS:

INHALATION:

ACUTE (IMMEDIATE):

MAY AFFECT THE CENTRAL NERVOUS SYSTEM. SYMPTOMS MAY INCLUDE DIZZINESS, DROWSINESS, LETHARGY, COMA AND DEATH.

CHRONIC (DELAYED): NO DATA AVAILABLE.

SKIN:

ACUTE (IMMEDIATE):

MATERIAL IS CLASSIFIED AS NON-IRRITANT AND NON-CORROSIVE USING GHS CRITERIA.

CHRONIC (DELAYED): NO DATA AVAILABLE.

EYE:

ACUTE (IMMEDIATE):

MATERIAL IS CLASSIFIED AS NON-IRRITANT USING GHS CRITERIA.

CHRONIC (DELAYED): NO DATA AVAILABLE.

INGESTION:

ACUTE (IMMEDIATE):

MATERIAL MAY BE ASPIRATED INTO LUNGS DURING INGESTION AND/OR SUBSEQUENT VOMITING.

ASPIRATION OF THIS MATERIAL WILL CAUSE SEVERE LUNG INJURY, CHEMICAL PNEUMONITIS, PULMONARY EDEMA OR DEATH.

CHRONIC (DELAYED): NO DATA AVAILABLE.

CARCINOGENIC EFFECTS:

SUSPECTED OF CAUSING CANCER. THIS PRODUCT CONTAINS COMPONENTS THAT ARE CONSIDERED CARCINOGENIC BY OSHA, IARC, NTP.

CARCINOGENIC EFFECTS:

	CAS	OSHA	IARC	NTP
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED	GROUP 2B- POSSIBLE CARCINOGEN	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED	GROUP 2B- POSSIBLE CARCINOGEN	REASONABLY ANTICIPATED TO BE HUMAN CARCINOGEN
PROPRIETARY ADDITIVE	PROPRIETARY	SPECIFICAL REGULATED CARCINOGEN	GROUP 1- CARCINOGENIC	KNOWN HUMAN CARCINOGEN

REPRODUCTIVE EFFECTS:

ANIMAL TESTS FOR COMPONENTS HAVE SHOWN ADVERSE REPRODUCTIVE EFFECTS.

KEY TO ABBREVIATIONS:

LD = LETHAL DOSE

MLD = MILD

SEV = SEVERE

TC = TOXIC CONCENTRATION

TD = TOXIC DOSE

SECTION 12 - ECOLOGICAL INFORMATION

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TOXICITY:

NON-MANDATORY SECTION - INFORMATION ABOUT THIS SUBSTANCE NOT COMPLIED FOR THIS REASON.

PERSISTENCE AND DEGRADABILITY:

NON-MANDATORY SECTION - INFORMATION ABOUT THIS SUBSTANCE NOT COMPLIED FOR THIS REASON.

BIOACCUMULATIVE POTENTIAL:

NON-MANDATORY SECTION - INFORMATION ABOUT THIS SUBSTANCE NOT COMPLIED FOR THIS REASON.

MOBILITY IN SOIL:

NON-MANDATORY SECTION - INFORMATION ABOUT THIS SUBSTANCE NOT COMPLIED FOR

THIS REASON.

OTHER ADVERSE EFFECTS:

NON-MANDATORY SECTION - INFORMATION ABOUT THIS SUBSTANCE NOT COMPLIED FOR THIS REASON.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:

PRODUCT WASTE:

DISPOSE OF CONTENT AND/OR CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND/OR INTERNATIONAL REGULATIONS.

PACKAGING WASTE:

DISPOSE OF CONTENT AND/OR CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND/OR INTERNATIONAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

UN NUMBER	UN PROPER SHIPPING NAME	TRANSPORT HAZARD CLASS (ES)	PACKING GROUP	ENVIRONMENTAL HAZARDS
DOT NONE APPLICABLE	GASOLINE ADDITIVE, N.O.I.	NDA	NDA	NDA

SPECIAL PRECAUTIONS FOR USER: NONE SPECIFIED.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
NO DATA AVAILABLE

SECTION 15 - REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

SARA HAZARD CLASSIFICATIONS: ACUTE, CHRONIC

INVENTORY:

COMPONENT	CAS	TSCA
PROPRIETARY ADDITIVE	PROPRIETARY	YES

UNITED STATES:

ENVIRONMENT:

U.S. - CAA (CLEAN AIR ACT) - 1990 HAZARDOUS AIR POLLUTANTS:

PROPRIETARY ADDITIVE	PROPRIETARY	
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	
PROPRIETARY ADDITIVE	PROPRIETARY	(ISOMERS AND MIXTURES)
PROPRIETARY ADDITIVE	PROPRIETARY	(INCLUDING BENZENE FROM GASOLINE)
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

U.S. - CAA (CLEAN AIR ACT) - ACCIDENTAL RELEASE PREVENTION - FLAMMABLE SUBSTANCES:

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

U.S. - CAA (CLEAN AIR ACT) - ACCIDENTAL RELEASE PREVENTION - TOXIC SUBSTANCES:

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

U.S. - CERCLA/SARA - HAZARDOUS SUBSTANCES AND THEIR REPORTABLE QUANTITIES:

PROPRIETARY ADDITIVE	PROPRIETARY	100 LB FINAL RQ 45.4 KG FINAL RQ
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	5000 LB FINAL RQ 2270 KG FINAL RQ
PROPRIETARY ADDITIVE	PROPRIETARY	100 LB FINAL RQ 45.4 KG FINAL RQ
PROPRIETARY ADDITIVE	PROPRIETARY	10 LB FINAL RQ (RECEIVED AN ADJUSTED RQ OF 10 LBS BASED ON POTENTIAL CARCINOGENICITY IN AN AUGUST 14, 1989 FINAL RULE)
		4.54 KG FINAL RQ (RECEIVED AN ADJUSTED RQ OF 10 LBS BASED ON POTENTIAL CARCINOGENICITY IN AN AUGUST 14, 1989)

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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U.S. - CERCLA/SARA - SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES EPCRA RQS:

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
----------------------	-------------	------------

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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U.S. - CERCLA/SARA - SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES TPQS:

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
----------------------	-------------	------------

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
----------------------	-------------	------------

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
----------------------	-------------	------------

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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U.S. - CERCLA/SARA - SECTION 313 - EMISSION REPORTING:

PROPRIETARY ADDITIVE	PROPRIETARY	0.1% DE MINIMIS CONCENTRATION
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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PROPRIETARY ADDITIVE	PROPRIETARY	1.0% DE MINIMIS CONCENTRATION
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PROPRIETARY ADDITIVE	PROPRIETARY	1.0% DE MINIMIS CONCENTRATION
----------------------	-------------	-------------------------------

PROPRIETARY ADDITIVE	PROPRIETARY	0.1% DE MINIMIS CONCENTRATION
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PROPRIETARY ADDITIVE	PROPRIETARY	1.0% DE MINIMIS CONCENTRATION
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U.S. - CERCLA/SARA - SECTION 313 - PBT CHEMICAL LISTING:

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
----------------------	-------------	------------

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
----------------------	-------------	------------

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
----------------------	-------------	------------

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
----------------------	-------------	------------

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
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U.S. - CWA (CLEAN WATER ACT) - HAZARDOUS SUBSTANCES:

PROPRIETARY ADDITIVE	PROPRIETARY
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PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	
PROPRIETARY ADDITIVE	PROPRIETARY	
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

U.S. - CWA (CLEAN WATER ACT) - TOXIC POLLUTANTS:

PROPRIETARY ADDITIVE	PROPRIETARY	
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

UNITED STATES - CALIFORNIA:

ENVIRONMENT:

U.S. - CALIFORNIA - PROPOSITION 65 - CARCINOGENS LIST:

PROPRIETARY ADDITIVE	PROPRIETARY	CARCINOGEN, INITIAL DATE 4/19/02
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	CARCINOGEN, INITIAL DATE 4/6/10
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	CARCINOGEN, INITIAL DATE 2/27/87
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

U.S. - CALIFORNIA - PROPOSITION 65 - DEVELOPMENTAL TOXICITY:

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	DEVELOPMENTAL TOXICITY, INITIAL DATE 12/26/97
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

U.S. - CALIFORNIA - PROPOSITION 65 - MAXIMUM ALLOWABLE DOSE LEVELS (MADL):

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	24 (MICRO)G/DAY MADL (ORAL)
		49 (MICRO)G/DAY MADL (INHALATION)
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
U.S. - CALIFORNIA - PROPOSITION 65 - NO SIGNIFICANT RISK LEVELS (NSRL) :		
PROPRIETARY ADDITIVE	PROPRIETARY	5.8 (MICRO)G/DAY NSRL
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	6.4 (MICRO)G/DAY NSRL (ORAL)
		13 (MICRO)G/DAY NSRL (INHALATION)
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
U.S. - CALIFORNIA - PROPOSITION 65 - REPRODUCTIVE TOXICITY - FEMALE:		
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
U.S. - CALIFORNIA - PROPOSITION 65 - REPRODUCTIVE TOXICITY - MALE:		
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED
PROPRIETARY ADDITIVE	PROPRIETARY	MALE REPRODUCTIVE TOXICITY, INITIAL DATE 12/26/97
PROPRIETARY ADDITIVE	PROPRIETARY	NOT LISTED

OTHER INFORMATION:

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.

SECTION 16 - OTHER INFORMATION

REVISION DATE: 17/SEPTEMBER/2015

PREPARATION DATE: 09/SEPTEMBER/2015

OTHER INFORMATION:

SCHEDULE B NUMBER: 3811.90.0000.

DISCLAIMER/STATEMENT OF LIABILITY:

INFORMATION PRESENTED HEREIN IS BELIEVED TO BE FACTUAL, AS IT HAS BEEN DERIVED FROM THE WORKS AND OPINIONS OF PERSONS BELIEVED TO BE QUALIFIED EXPERTS. HOWEVER, NOTHING CONTAINED IN THIS INFORMATION IS TO BE TAKEN AS WARRANTY OR REPRESENTATION FOR WHICH THE GOLD EAGLE CO. BEARS LEGAL RESPONSIBILITY. THE USER SHOULD REVIEW ANY RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE TO DETERMINE WHETHER THEY ARE APPROPRIATE.

KEY TO ABBREVIATIONS:

NDA = NO DATA AVAILABLE

FORMAT: GHS

LANGUAGE: ENGLISH (US)

OSHA HCS 2012



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • HEET® Gas Line Antifreeze Line

Synonyms • 584402

Product Code • 28201; 28203; 28205; 28213; 28219

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

Recommended use • Gasoline fuel additive

Restrictions on use • Do not use in diesel fuel or add to gasoline/oil mixtures use in 2 cycle engines

Details of the supplier of the safety data sheet

Manufacturer • Gold Eagle Co.

4400 S. Kildare Avenue
Chicago, IL 60632-4372
United States

<http://www.goldeagle.com/>

Telephone (General) • 773-376-4400

Emergency telephone number

Manufacturer • 1-800-535-5053 - (INFOTRAC #22283)

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 2
- Skin Irritation 2
- Eye Irritation 2
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
- Reproductive Toxicity 2
- Specific Target Organ Toxicity Single Exposure 1
- Specific Target Organ Toxicity Repeated Exposure 1

Label elements

OSHA HCS 2012

DANGER



Hazard statements • Highly flammable liquid and vapour
Causes skin irritation
Causes serious eye irritation

May cause drowsiness or dizziness
 Suspected of damaging fertility or the unborn child.
 Causes damage to organs - Eyes
 Causes damage to organs - Eyes through prolonged or repeated exposure

Precautionary statements

Prevention • Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Keep container tightly closed.
 Ground and/or bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe mist/vapours/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 and eye/face protection . .

Response • In case of fire: Use appropriate media for extinction.
 IF INHALED: 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.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 Wash contaminated clothing before reuse.
 If skin irritation occurs: Get medical advice/attention.
 Specific treatment, see supplemental first aid information.
 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.
 Get medical advice/attention if you feel unwell.
 IF exposed: Call POISON CENTER or doctor/physician.

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed.
 Keep cool.
 Store locked up.
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
			Inhalation-Rat LC50 •	

Methanol	CAS:67-56-1	100%	64000 ppm 4 Hour(s) Skin-Rabbit LD50 • 15800 mg/kg Ingestion/Oral-Rat LD50 • 5600 mg/kg	OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Skin Irrit. 2; STOT SE 1 (Eyes); STOT SE 3: Narc.; STOT RE 1 (Eyes); Repr. 2
Proprietary	Proprietary	0.0006% TO 0.0012%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	OSHA HCS 2012: Exposure limit(s)
Proprietary	Proprietary	0.0001996% TO 0.0003996%	Skin-Rabbit LD50 • 17800 µL/kg Ingestion/Oral-Rat LD50 • 3500 mg/kg Inhalation-Rat LC50 • 55000 mg/m ³ 2 Hour(s)	OSHA HCS 2012: Exposure limit(s)

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

Skin

- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water.

Eye

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately.

Ingestion

- Induce vomiting (only in conscious persons) Then give 2 teaspoons of baking soda in a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Use halon replacement or carbon dioxide extinguishers or alcohol foam for small fires. Large fires should be extinguished with alcohol foam.

Unsuitable Extinguishing Media • Water spray or fog can cool fire but may not be effective in extinguishing fire.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Containers may explode when heated.
Vapor explosion hazard indoors, outdoors or in sewers.
HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Many liquids are lighter than water.
Most vapors are heavier than air. They will spread along ground and collect in low or

Hazardous Combustion Products**Advice for firefighters**

confined areas (sewers, basements, tanks).
 Runoff to sewer may create fire or explosion hazard.
 Vapors may form explosive mixtures with air.
 Vapors may travel to source of ignition and flash back.

- No data available

- Structural firefighters' protective clothing will only provide limited protection.
 Wear positive pressure self-contained breathing apparatus (SCBA).
 Move containers from fire area if you can do it without risk.
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

- Ventilate the area. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE) Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. **LARGE SPILL:** Consider initial downwind evacuation for at least 300 meters (1000 feet) **ELIMINATE** all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up**Containment/Clean-up Measures**

- Stop leak if you can do it without risk.
 Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
 Use clean non-sparking tools to collect absorbed material.
 A vapor suppressing foam may be used to reduce vapors.
 All equipment used when handling the product must be grounded.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Section 7 - Handling and Storage**Precautions for safe handling****Handling**

- Use only with adequate ventilation. Keep away from heat, sparks, and flame. All equipment used when handling the product must be grounded. Take precautionary measures against static charges. Do not use sparking tools. Contact lenses should not be worn when working with this chemical. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities**Storage**

- Keep container tightly closed. Keep away from sources of ignition – No Smoking. Store in a cool, dry, well-ventilated place. Empty containers contain product residues, assume emptied containers to have same hazards as full containers.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Proprietary (Proprietary)	TWAs	20 ppm TWA	100 ppm TWA; 435 mg/m ³ TWA	100 ppm TWA; 435 mg/m ³ TWA
	STELs	Not established	125 ppm STEL; 545 mg/m ³ STEL	Not established
Proprietary (Proprietary)	TWAs	100 ppm TWA	Not established	100 ppm TWA; 435 mg/m ³ TWA
	STELs	150 ppm STEL	Not established	Not established
Methanol (67-56-1)	TWAs	200 ppm TWA	200 ppm TWA; 260 mg/m ³ TWA	200 ppm TWA; 260 mg/m ³ TWA
	STELs	250 ppm STEL	250 ppm STEL; 325 mg/m ³ STEL	Not established

Exposure controls

Engineering Measures/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. Use only appropriately classified electrical equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear chemical splash safety goggles.

Skin/Body

- Wear appropriate gloves. Wear protective clothing

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description

Physical Form	Liquid	Appearance/Description	Water-white to pale yellow liquid.
Color	Water-white to pale yellow.	Odor	No data available
Odor Threshold	No data available		

General Properties

Boiling Point	147 F(63.8889 C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.791 Water=1	Water Solubility	Soluble 100 %
Viscosity	3 to 5 Centistoke (cSt, cS) or mm ² /sec @ 40 C(104 F)		

Volatility

Vapor Pressure	96 mmHg (torr)	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Vol.)	100 %
Volatiles (Vol.)	100 %		

Flammability

Flash Point	56 F(13.3333 C)	UEL	12.7 %
LEL	2 %	Autoignition	No data available
Flammability (solid, gas)	Not relevant.		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Keep away from heat, sparks, and flame.

Incompatible materials

- Strong oxidizing agents, aluminum, zinc, or metals that displace hydrogen, rubber and rubber based coatings, chromic anhydride, lead perchlorate and perchloric acids.

Hazardous decomposition products

- Excessive heating and/or incomplete combustion will produce carbon monoxide.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Methanol (100%) 67-56-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5600 mg/kg; Inhalation-Rat LC50 • 64000 ppm 4 Hour(s); Skin-Rabbit LD50 • 15800 mg/kg; Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Mutagen: Cytogenetic analysis • Ingestion/Oral-Mouse • 1 g/kg; DNA damage • Ingestion/Oral-Rat • 10 µmol/kg; Reproductive: Inhalation-Mouse TCLO • 5000 ppm 7 Hour(s)(6-15D preg); Reproductive Effects: Specific Developmental Abnormalities: Central nervous system; Reproductive Effects: Specific Developmental Abnormalities: Craniofacial (including nose and tongue); Inhalation-Mouse TCLO • 2000 ppm 7 Hour(s)(6-15D preg); Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system	

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2
Acute toxicity	OSHA HCS 2012 • Data lacking
Aspiration Hazard	OSHA HCS 2012 • Data lacking
Carcinogenicity	OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • Data lacking
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 1; Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012 • Toxic to Reproduction 2
Germ Cell Mutagenicity	OSHA HCS 2012 • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate) • May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed) • No data available.

Skin

Acute (Immediate) • Causes skin irritation.

Chronic (Delayed) • No data available.

Eye

Acute (Immediate) • Causes serious eye irritation.

Chronic (Delayed) • No data available.

Ingestion

Acute (Immediate) • May cause headache, dizziness, weakness, euphoria, drowsiness, shortness of breath, vomiting, and loss of voluntary muscle control. Can also cause blindness and death.

Chronic (Delayed) • No data available.

Other

Chronic (Delayed) • Chronic poisoning from repeated exposure to methanol vapor were manifested by conjunctivitis, headache, giddiness, insomnia, gastric disturbances, and bilateral blindness.

Carcinogenic Effects

• This product does not contain any components above de minimus concentrations that are considered carcinogenic by OSHA , IARC or NTP .

Carcinogenic Effects		
	CAS	IARC
Proprietary	Proprietary	Group 2B-Possible Carcinogen

Reproductive Effects

• Animal tests for components have shown adverse reproductive effects.

Key to abbreviations

LD = Lethal Dose

TC = Toxic Concentration

Section 12 - Ecological Information

Toxicity

• Non-mandatory section - information about this substance not complied for this reason.

Persistence and degradability

• Non-mandatory section - information about this substance not complied for this reason.

Bioaccumulative potential

• Non-mandatory section - information about this substance not complied for this reason.

Mobility in Soil

- Non-mandatory section - information about this substance not complied for this reason.

Other adverse effects

- Non-mandatory section - information about this substance not complied for this reason.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste	<ul style="list-style-type: none"> • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste	<ul style="list-style-type: none"> • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	ORM-D	Consumer commodity	NDA	NDA	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute, Chronic, Fire

Inventory		
Component	CAS	TSCA
Proprietary	Proprietary	Yes
Methanol	67-56-1	Yes
Proprietary	Proprietary	Yes

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Proprietary	Proprietary	(listed under Ethyl benzene)
• Methanol	67-56-1	
• Proprietary	Proprietary	(isomers and mixtures)
U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances		
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Toxic Substances		
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
• Proprietary	Proprietary	1000 lb final RQ; 454 kg final RQ
• Methanol	67-56-1	5000 lb final RQ; 2270 kg final RQ
• Proprietary	Proprietary	100 lb final RQ; 45.4 kg final RQ
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
• Proprietary	Proprietary	0.1 % de minimis concentration
• Methanol	67-56-1	1.0 % de minimis concentration
• Proprietary	Proprietary	1.0 % de minimis concentration
U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing		
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
U.S. - CWA (Clean Water Act) - Hazardous Substances		
• Proprietary	Proprietary	
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	
U.S. - CWA (Clean Water Act) - Toxic Pollutants		
• Proprietary	Proprietary	
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List			
• Proprietary	<i>Proprietary</i>	carcinogen, initial date 6/11/04	
• Methanol	67-56-1	Not Listed	
• Proprietary	<i>Proprietary</i>	Not Listed	
U.S. - California - Proposition 65 - Developmental Toxicity			
• Proprietary	<i>Proprietary</i>	Not Listed	
• Methanol	67-56-1	developmental toxicity, initial date 3/16/12	
• Proprietary	<i>Proprietary</i>	Not Listed	
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)			
• Proprietary	<i>Proprietary</i>	Not Listed	
• Methanol	67-56-1	Not Listed	
• Proprietary	<i>Proprietary</i>	Not Listed	
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)			
• Proprietary	<i>Proprietary</i>	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)	
• Methanol	67-56-1	Not Listed	
• Proprietary	<i>Proprietary</i>	Not Listed	
U.S. - California - Proposition 65 - Reproductive Toxicity - Female			
• Proprietary	<i>Proprietary</i>	Not Listed	
• Methanol	67-56-1	Not Listed	
• Proprietary	<i>Proprietary</i>	Not Listed	
U.S. - California - Proposition 65 - Reproductive Toxicity - Male			
• Proprietary	<i>Proprietary</i>	Not Listed	
• Methanol	67-56-1	Not Listed	
• Proprietary	<i>Proprietary</i>	Not Listed	

Other Information

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

Section 16 - Other Information

Revision Date	• 11/September/2015
Preparation Date	• 23/September/2014
Other Information	• Schedule B Number: 3820.00.0000.
Disclaimer/Statement of Liability	• Information presented herein is believed to be factual, as it has been derived from the works and opinions of persons believed to be qualified experts. However, nothing contained in this information is to be taken as warranty or representation for which the Gold Eagle Co. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Key to abbreviations

NDA = No data available

**Revision Number:** 003.1**Issue date:** 11/17/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Loctite(R) 55 Pipe Sealing Cord	IDH number:	342134
Product type:	Sealant	Item number:	35082
Restriction of Use:	None identified	Region:	United States
Company address:		Contact information:	
Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067		Telephone: (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com	

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
EYE IRRITATION	2A

PICTOGRAM(S)



Precautionary Statements

Prevention:	Wash affected area thoroughly after handling. Wear eye and face protection.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage:	Not prescribed
Disposal:	Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Limestone	1317-65-3	40 - 50
Talc	14807-96-6	1 - 5
Ethene, tetrafluoro-, homopolymer	9002-84-0	0.1 - 1
Quartz (SiO ₂)	14808-60-7	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Symptoms:	See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.
Unusual fire or explosion hazards:	Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.
Hazardous combustion products:	Oxides of carbon. Oxides of silicon. Carbonyl fluoride. Hydrogen fluoride. Formaldehyde. Irritating organic vapours.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling:	Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.
Storage:	For safe storage, store between 5 °C (41°F) and 30 °C (86°F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m ³ TWA Total dust.	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust.	None	None
Talc	2 mg/m ³ TWA Respirable fraction.	20 MPPCF TWA 2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.3 mg/m ³ TWA Total dust.	None	50 ppm
Ethene, tetrafluoro-, homopolymer	None	None	None	10 mg/m ³ TWA Total dust. 5 mg/m ³ TWA Respirable fraction.
Quartz (SiO ₂)	0.025 mg/m ³ TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.05 mg/m ³ PEL	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. The use of polyvinyl chloride gloves is recommended. Nitrile gloves. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Opaque, Off white
Odor:	Slight, Acrylic
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	< 0 mm hg (20 °C (68°F))
Boiling point/range:	150 °C (302°F)
Melting point/ range:	Not available.
Specific gravity:	1.25
Vapor density:	< 1 (Air = 1)
Flash point:	> 93 °C (> 199.4 °F) Closed cup
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Partially soluble
Partition coefficient (n-octanol/water):	Not available.
VOC content:	1 %; 12.75 g/l
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Irritating organic vapours.
Incompatible materials:	Oxidizing agents. Fluorine. Ammonium salts. Heat, sunlight, UV light, contamination or an oxygen free atmosphere.
Reactivity:	Not available.
Conditions to avoid:	Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system. When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit.
Skin contact:	May cause skin irritation.
Eye contact:	Causes serious eye irritation.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Limestone	None	Nuisance dust
Talc	None	Irritant, Lung, Some evidence of carcinogenicity
Ethene, tetrafluoro-, homopolymer	None	No Target Organs
Quartz (SiO ₂)	None	Immune system, Lung, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Talc	No	Group 2B	No
Ethene, tetrafluoro-, homopolymer	No	No	No
Quartz (SiO ₂)	Known To Be Human Carcinogen.	Group 1	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA Section 313: None above reporting de minimis.

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: Reviewed SDS. Reissued with new date.

Prepared by: Sheila Gines, Regulatory Affairs Specialist

Issue date: 11/17/2016

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Safety Data Sheet



Revision Number: 007.2

Issue date: 09/09/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Loctite® PL® Polyurethane Self-Leveling Concrete Crack Sealant	IDH number:	1618150
Product type/use:	Sealant	Region:	United States
Restriction of Use:	None identified	Contact information:	
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	Telephone:	+1 (860) 571-5100
		MEDICAL EMERGENCY Phone:	Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711
		TRANSPORT EMERGENCY Phone:	CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887
		Internet:	www.henkelna.com

This product contains a chemical which is subject to a proposed Environmental Protection Agency (EPA) Significant New Use Restriction (SNUR).

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER:	COMBUSTIBLE LIQUID. CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE DAMAGE. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. SUSPECTED OF CAUSING CANCER. HARMFUL IF INHALED.
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HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
ACUTE TOXICITY INHALATION	3
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
CARCINOGENICITY	2

PICTOGRAM(S)



Precautionary Statements

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. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. In case of inadequate ventilation wear respiratory protection.

Response:

IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician. 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 attention. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage:

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

IDH number: 1618150

Product name: Loctite® PL® Polyurethane Self-Leveling Concrete Crack Sealant
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Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Limestone	1317-65-3	>= 40 - < 50
Stoddard solvent, <0.1% Benzene	8052-41-3	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Toluene-2,6-diisocyanate	91-08-7	0.1 - 1
Gamma-glycidoxypropyl trimethoxysilane	2530-83-8	0.1 - 1
Calcium oxide	1305-78-8	1 - 5
4-isocyanatosulphonyltoluene	4083-64-1	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:

If inhaled, immediately remove the affected person to fresh air. Immediate medical treatment necessary.

Skin contact:

Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention. Remove contaminated clothes.

Eye contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion:

Do not induce vomiting, seek medical advice immediately.

Symptoms:

See Section 11.

Notes to physician:

An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate. Treatment based on judgement of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures:

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards:

None known.

Hazardous combustion products:

Nitrous gases Irritating fumes. Isocyanate vapors.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Ventilated area. Wear appropriate protective equipment and clothing during clean-up. Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways.

Clean-up methods:

Scrape up spilled material and place in a closed container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid extreme temperatures. Wash thoroughly after handling. Protect from moisture. Use only with adequate ventilation.

Storage:

For safe storage, store between 18.3 °C (64.9 °F) and 40 °C (104°F). Avoid moisture. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m ³ TWA Total dust.	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust.	None	None
Stoddard solvent, <0.1% Benzene	100 ppm TWA	500 ppm (2,900 mg/m ³) PEL	None	None
Titanium dioxide	10 mg/m ³ TWA	15 mg/m ³ PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m ³ TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m ³ TWA Respirable fraction.	None	None
Toluene-2,6-diisocyanate	0.005 ppm STEL Inhalable fraction and vapor. 0.001 ppm TWA Inhalable fraction and vapor. (SKIN) Inhalable fraction and vapor. (Dermal sensitization) (Respiratory sensitization)	None	None	None
Gamma-glycidoxypropyl trimethoxysilane	None	None	None	None
Calcium oxide	2 mg/m ³ TWA	5 mg/m ³ PEL	None	None
4-isocyanatosulphonyltoluene	None	None	None	None

Engineering controls:

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection:

Observe OSHA regulations for respirator use (29 CFR 1910.134). Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. Respirator with combination filter for vapor/particulate.

Eye/face protection:

Safety glasses with side-shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection:

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Color:

Gray

Odor:

Slight

Odor threshold:

Not available.

pH:

Not available.

Vapor pressure:

Not available.

IDH number: 1618150

Product name: Loctite® PL® Polyurethane Self-Leveling Concrete Crack Sealant
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Boiling point/range:	Not available.
Melting point/ range:	Not available.
Specific gravity:	1.15
Vapor density:	Not available.
Flash point:	85 °C (185°F) Certificate of Supplier
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not applicable
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available.
VOC content:	1.5 %; 36 g/l (by weight, calculated using CARB method; g/L less water, less exempts calculated using SCAQMD method)
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	Contact with moisture, other materials that react with isocyanates, or temperatures above 350° F (177° C), may cause polymerization.
Hazardous decomposition products:	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. nitrogen oxides Aromatic isocyanates. carbon oxides. carbon monoxide Hydrogen cyanide.
Incompatible materials:	Oxidizing agents. Alcohols. Water. Strong bases.
Reactivity:	Not available.
Conditions to avoid:	Avoid moisture. Keep away from open flames, hot surfaces and sources of ignition. Prolonged exposure to heat.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung damage. Dryness of nasal passages, sore throat, cough, tightness of chest, shortness of breath. Persons suffering from allergic reactions to isocyanates should avoid contact with the product. This product may cause sensitization by inhalation and skin contact. May cause respiratory tract irritation.	
Skin contact:	Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. This product may discolor the skin.	
Eye contact:	Contact with eyes will cause irritation.	
Ingestion:	Ingestion of this product may cause nausea, vomiting and diarrhea.	

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Limestone	None	Nuisance dust
Stoddard solvent, <0.1% Benzene	None	Central nervous system, Irritant
Titanium dioxide	Inhalation LC50 (Rat, 4 h) = > 2.28 mg/l Inhalation LC50 (Rat, 4 h) = > 6.82 mg/l Inhalation LC50 (Rat, 4 h) = > 3.56 mg/l	Irritant, Respiratory, Some evidence of carcinogenicity
Toluene-2,6-diisocyanate	None	Allergen, Bone Marrow, Corrosive, Eyes, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity
Gamma-glycidoxypropyl trimethoxysilane	None	Allergen, Irritant
Calcium oxide	None	Irritant, Corrosive, Eyes
4-isocyanatosulphonyltoluene	None	No Target Organs

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Stoddard solvent, <0.1% Benzene	No	No	No
Titanium dioxide	No	Group 2B	No
Toluene-2,6-diisocyanate	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Gamma-glycidoxypropyl trimethoxysilane	No	No	No
Calcium oxide	No	No	No
4-isocyanatosulphonyltoluene	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: U223: Toluene Diisocyanate. It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

15. REGULATORY INFORMATION**United States Regulatory Information**

TSCA 8 (b) Inventory Status:	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.
TSCA 12 (b) Export Notification:	Toluene-2,6-diisocyanate (CAS# 91-08-7).
CERCLA/SARA Section 302 EHS:	Toluene-2,6-diisocyanate (CAS# 91-08-7).
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health, Fire
CERCLA/SARA Section 313:	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Toluene-2,6-diisocyanate (CAS# 91-08-7).
CERCLA Reportable quantity:	Toluene-2,6-diisocyanate (CAS# 91-08-7) 100 lbs. (45.4 kg)
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
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16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s): 2

Prepared by: Product Safety and Regulatory Affairs

Issue date: 09/09/2020

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1 Identification

- **Product identifier**
- **Trade name:** CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV; CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV); CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** Building and construction work
- **Application of the substance / the mixture**
 - Assembly foam
 - 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
Español: (800) 879-5000
- **Information department:**

see section 16
chemicals.hse@hilti.com
- **Emergency telephone number:**

Chem-Trec
Tel.: 1 800 424 9300
Tox Info Suisse - 24 h Service
Tel.: 0041 / 44 251 51 51 (international)

2 Hazard(s) identification

- **Classification of the substance or mixture**

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Carc. 2 H351 Suspected of causing cancer.
STOT SE 3 H335 May cause respiratory irritation.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful
R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- **Xn; Sensitising**

R42/43: May cause sensitization by inhalation and skin contact.
- **Xi; Irritant**

R36/37/38: Irritating to eyes, respiratory system and skin.
- **F+; Extremely flammable**

R12: Extremely flammable.
- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurized container.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



- **Signal word** Danger

- **Hazard-determining components of labeling:**

4,4'-diphenylmethanediisocyanate, isomers and homologues
- **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.
H332 Harmful if inhaled.
H315 Causes skin irritation.

(Contd. on page 2)

US

(Contd. of page 1)

H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Classification system	
NFPA ratings (scale 0-4)	
 Health = 1 Fire = 4 Reactivity = 1	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	

*

3 Composition/information on ingredients**Chemical characterization: Mixtures****Description:** Mixture consisting of the following components.**Dangerous components:**

9016-87-9	4,4'-diphenylmethanediisocyanate, isomeres and homologues	Xn R20-40-48/20; Xn R42/43; Xi R36/37/38	>25%
13674-84-5	Tris(1-chloro-2-propyl)phosphate	Xn R22 R52/53	10-25%
75-28-5	isobutane	F+ R12	5-15%
106-97-8	butane, pure	F+ R12	5-15%
115-10-6	dimethyl ether	F+ R12	5-15%
74-98-6	propane liquefied	F+ R12	5-15%

Additional information For the wording of the listed risk phrases refer to section 16.**4 First-aid measures****Description of first aid measures****General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation** Supply fresh air; consult doctor in case of complaints.
- After skin contact** Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
- After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing** Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
- Information for doctor**
- Most important symptoms and effects, both acute and delayed** Allergic reactions
- Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures**Extinguishing media****Suitable extinguishing agents** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents** Water with full jet.**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Can form explosive gas-air mixtures.

Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Mount respiratory protective device.

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- Additional information Cool endangered receptacles with water spray.

(Contd. of page 2)

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Ensure adequate ventilation
Keep away from ignition sources
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Allow to solidify. Pick up mechanically.
Dispose contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents
- 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
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- Information about protection against explosions and fires:
Don't spray on a naked flames or any incandescent material
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Contents under pressure. Do not store in direct sunlight. Do not store above 100°F. Do not open or burn even after use.
- Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles:
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- Storage class 2 B
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Control parameters

- Components with limit values that require monitoring at the workplace:

75-28-5 isobutaneTLV | Short-term value: 2370 mg/m³, 1000 ppm**106-97-8 butane, pure**REL | Long-term value: 1900 mg/m³, 800 ppmTLV | Short-term value: 2370 mg/m³, 1000 ppm**115-10-6 dimethyl ether**

WEEL | Long-term value: 1000 ppm

74-98-6 propane liquefiedPEL | Long-term value: 1800 mg/m³, 1000 ppmREL | Long-term value: 1800 mg/m³, 1000 ppm

TLV | refer to Appendix F: minimal oxygen content

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls

- Personal protective equipment

- General protective and hygienic measures

Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.

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US

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· **Breathing equipment:**

Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.

· **Recommended filter device for short term use:**

Filter AX
EN 371

· **Protection of hands:**

Protective gloves.

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves** Nitrile rubber, NBR· **Penetration time of glove material** Value for the permeation: Level \leq 60· **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:	Aerosol
Color:	Different according to coloring
Odor:	Characteristic
Odour threshold:	Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	<35 °C (<95 °F)

· **Flash point:**

<0 °C (<32 °F) (DIN 53213)

· **Flammability (solid, gaseous)**

Not applicable.

· **Ignition temperature:**

235 °C (455 °F)

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower:	1.5 Vol %
Upper:	11 Vol %

· **Vapor pressure:**

Not determined

· **Density:**

Not determined

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Evaporation rate**

Not applicable.

· **Solubility in / Miscibility with**

Water:	Not miscible or difficult to mix
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· **Partition coefficient (n-octanol/water):**

Not determined.

· **Viscosity:**

dynamic:	Not determined.
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kinematic:	Not determined.
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(Contd. on page 5)

US

(Contd. of page 4)

· Other information	CF 116 - VOC Content: 2.1 g/l (EPA Method 24) CF 812 - VOC Content: 2.4 g/l (EPA Method 24) CF-AS CJP - VOC Content: 0.012 g/l (EPA Method 24)
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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Reacts with alcohols, amines, aqueous acids and alkalis
Danger of bursting
- **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/LC50 values that are relevant for classification:

9016-87-9 4,4'-diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4h	0.49 mg/l (rat)

13674-84-5 Tris(1-chloro-2-propyl)phosphate

Oral	LD50	1150 - 1750 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4h	>5 mg/l (rat)

74-98-6 propane liquefied

Inhalative	LC50/4h	513 mg/l (rat)
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115-10-6 dimethyl ether

Inhalative	LC50/4h	308 mg/l (rat)
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75-28-5 isobutane

Inhalative	LC50/4h	>50 mg/l (rat)
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106-97-8 butane, pure

Inhalative	LC50/4h	658 mg/l (rat)
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- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:**

- Sensitization possible through inhalation.

- Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

IARC (International Agency for Research on Cancer)**9016-87-9 4,4'-diphenylmethanediisocyanate, isomeres and homologues**

[3]

NTP (National Toxicology Program)

None of the ingredients is listed

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

13674-84-5 Tris(1-chloro-2-propyl)phosphate

EC50/48h	65 - 335 mg/l (magna daphnia)
EC50/72h	45 mg/l (Algae)
EC50/96h	56.2 mg/l (fish)

9016-87-9 4,4'-diphenylmethanediisocyanate, isomeres and homologues

EC50/96h	>1000 mg/l (fish)
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115-10-6 dimethyl ether

EC50/96h	>1000 mg/l (fish)
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US

(Contd. of page 5)

74-98-6 propane liquefied

EC50/96h >1000 mg/l (fish)

- Persistence and degradability Based on previous experience, this product is inert and non-degradable.
- Behavior in environmental systems:
- Bioaccumulative potential Does not accumulate in organisms
- Mobility in soil No further relevant information available.
- 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.

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13 Disposal considerations

- Waste treatment methods

- Recommendation

After curing, the product can be disposed of with household waste.

Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations.

- European waste catalogue:

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

20 01 27* paint, inks, adhesives and resins containing dangerous substances

- Uncleaned packagings:

- Recommendation:

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

Disposal must be made according to official regulations.

14 Transport information

- UN-Number

- DOT, ADR, IMDG, IATA

UN1950

- UN proper shipping name

- DOT

Aerosols, flammable

- ADR

1950 Aerosols

- IMDG

AEROSOLS

- IATA

AEROSOLS, flammable

- Transport hazard class(es)

- DOT



- Class

2.1

- Label

2.1

- ADR



- Class

2 5F Gases

- Label

2.1

- IMDG, IATA



- Class

2.1

- Label

2.1

- Packing group

- DOT, ADR, IMDG, IATA

Void

- Environmental hazards:

- Marine pollutant:

No

- Special marking (ADR):

None

- Special marking (IATA):

None

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US

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· Special precautions for user	Warning: Gases
· Danger code (Kemler):	Void
· EMS Number:	F-D,S-U
· Segregation groups	None
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· IATA	
· Remarks:	Packing Instruction No. 203
· UN "Model Regulation":	UN1950, Aerosols, 2.1

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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):**

- 9016-87-9 | 4,4'-diphenylmethanediisocyanate, isomeres and homologues

- **TSCA (Toxic Substances Control Act):**

- All ingredients are listed.

- **Proposition 65:**

- **Chemicals known to cause cancer:**

- None of the ingredients are listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

- 9016-87-9 | 4,4'-diphenylmethanediisocyanate, isomeres and homologues

- CBD

- **TLV (Threshold Limit Value established by ACGIH)**

- None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**

- 9016-87-9 | 4,4'-diphenylmethanediisocyanate, isomeres and homologues

- 4

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

- None of the ingredients is listed.

- **Chemical safety assessment:** not required.

16 Other information

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

- **Relevant phrases**

- R12 Extremely flammable.

- R20 Harmful by inhalation.

- R22 Harmful if swallowed.

- R36/37/38 Irritating to eyes, respiratory system and skin.

- R40 Limited evidence of a carcinogenic effect.

- R42/43 May cause sensitization by inhalation and skin contact.

- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

- **Department issuing SDS:**

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- Quality/Safety/Environment

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- **Date of preparation / last revision** 05/19/2015 / 4

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
.* Data compared to the previous version altered.

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US