

# Material Safety Data Sheet



## Threading Oil

### 1. Product and company identification

<b>Product name</b>	: Threading Oil
<b>Code</b>	: 506010, 506011, 506015
<b>Material uses</b>	: Not available.
<b>Supplier/Manufacturer</b>	: LynCar Products Limited, 30 Hedgedale Road, Brampton, ONT L6T 5L2 Tel: (800) 263-7011 Fax: (800) 459-6227
<b>MSDS authored by</b>	: KMK Regulatory Services inc.
<b>In case of emergency</b>	: CHEMTREC, U.S. : 1-800-424-9300    International: +1-703-527-3887
<b>Product type</b>	: Liquid.

### 2. Hazards identification

#### Emergency overview

<b>Physical state</b>	: Liquid.
<b>Odor</b>	: Hydrocarbon.
<b>Hazard statements</b>	: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
<b>Precautions</b>	: No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin</b>	: No known significant effects or critical hazards.
<b>Eyes</b>	: No known significant effects or critical hazards.

#### Potential chronic health effects

<b>Chronic effects</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b>Skin</b>	: No specific data.
<b>Eyes</b>	: No specific data.

<b>Medical conditions aggravated by over-exposure</b>	: None known.
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See toxicological information (section 11)

### 3. Composition/information on ingredients

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

### 4. First aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
- Notes to physician** : No specific treatment. Treat symptomatically.

### 5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous decomposition products** : No specific data.
- Special protective equipment for fire-fighters** : No special protection is required.

### 6. Accidental release measures

- Personal precautions** : Put on appropriate personal protective equipment (see section 8).
- 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 for cleaning up**
- Small spill** : Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : 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. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). 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.
- Storage** : 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. 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.

## 8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
No known value.											

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.
- Personal protection**
- Respiratory** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Not required under normal conditions of use.
- Hands** : Use gloves appropriate for work or task being performed. Not required under normal conditions of use. Recommended: Disposable vinyl gloves.
- Eyes** : Safety eyewear should be used when there is a likelihood of exposure. Not required under normal conditions of use. Recommended: Safety glasses with side shields.
- Skin** : No special protective clothing is required.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Open cup: 218.33°C (425°F) (Cleveland.).
- Odor** : Hydrocarbon.
- Boiling/condensation point** : 315.56°C (600°F)
- Melting/freezing point** : 0°C (32°F)
- Specific gravity** : 0.87 g/cm<sup>3</sup>

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

- Acute toxicity** : No specific data.
- Chronic toxicity** : No specific data.

## 12. Ecological information

**Environmental effects** : Not established

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

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

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

## 14. Transport information

**TDG/IMDG/IATA** : Not regulated.

## 15. Regulatory information

**WHMIS (Canada)** : Not controlled under WHMIS (Canada).  
**Canadian lists** : **CEPA Toxic substances**: This material is not listed.  
**Canadian ARET**: This material is not listed.  
**Canadian NPRI**: This material is not listed.  
**Alberta Designated Substances**: This material is not listed.  
**Ontario Designated Substances**: This material is not listed.  
**Quebec Designated Substances**: This material is not listed.

**Canada inventory** : Not determined.

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

**International lists** : **Australia inventory (AICS)**: Not determined.  
**China inventory (IECSC)**: Not determined.  
**Japan inventory**: Not determined.  
**Korea inventory**: Not determined.  
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.  
**Philippines inventory (PICCS)**: Not determined.

## 16. Other information

**References** : ANSI Z400.1, MSDS Standard, 2004. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

**Date of issue** : 04/15/2010

**Date of previous issue** : 11/15/2007

**Version** : 3

### Notice to reader

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

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

# STL2 Thread Lubricant

## Safety Data Sheet

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

### SECTION 1: PRODUCT & COMPANY IDENTIFICATION

**Chemical Product Name:** STL Thread Lubricant  
**Product Description:** Thread lubricant  
**CAS Number:** Mixture of 64742-65-0, 64742-62-7 and 4485-12-5  
**Synonyms:** NA  
**Recommended Use(s):** Thread lubricant for industrial applications  
**Company Information:** Eaton's Crouse-Hinds Business  
1201 Wolf Street  
Syracuse, NY 13208 USA  
**Telephone:** (866) 764-5454  
**Emergency Phone:** CHEMTREC (800) 424-9300

### SECTION 2: HAZARDS IDENTIFICATION

**OSHA HCS Status:** This product is a hazardous chemical, as defined by OSHA at 29 CFR 1910.1200. Hazards identified are based on hazards of the ingredients. This product has not been fully tested.

**Relevant Route of Exposure/Target Organs:** Eyes, dermal

**OSHA/GHS Signal Word and Hazard Statements:** WARNING: Causes mild skin irritation. Causes eye irritation.

**OSHA/GHS Classification and Pictograms:**

Skin irritation  
Eye irritation

Category 3  
Category 2B



**OSHA/GHS Precautionary Statements:**

#### Prevention

Wash hands thoroughly after handling.

#### Response

**If skin irritation occurs:** Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**GHS Hazard and Precautionary Statement Codes:** See Section 16.

### SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

Component	CAS #	%
Petroleum oil	64742-65-0, 64742-62-7	>60
Lithium hydroxyl stearate (as lithium stearate)	4485-12-5	7

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Holding eyelids away from the eyeballs, flush eyes thoroughly with lukewarm water for 15 minutes. Do not rub. If irritation persists, seek medical attention.

**Skin Contact:** Remove contaminated clothing and wash skin thoroughly with soap and water. Do not rub or scratch skin. If irritation persists, seek medical attention.

**Inhalation:** Not expected under normal conditions. If mists or degradation products are inhaled, remove to fresh air. Administer oxygen or artificial respiration as indicated and get immediate medical attention.

**Ingestion:** Not expected under normal conditions. If substantial amounts are ingested, consult a physician. Do not induce vomiting – if vomiting occurs, hold head beneath hips or place on left side with head down to reduce aspiration into lungs. Never give anything by mouth to an unconscious person.

**Notes to Physician:** High velocity injection under the skin may result in serious injury. If left untreated, the affected area is subject to infection, disfigurement, lack of blood circulation and may require amputation. When dispensed by high pressure equipment, this material can easily penetrate the skin and leave a bloodless puncture wound. Material injected into a finger can be deposited into the palm of the hand. Within 24-48 hours, the patient may experience swelling, discoloration and throbbing pain in the affected area. Immediate treatment by a surgical specialist is recommended.

**Most Important Symptoms/Effects:** Causes eye and skin irritation.

**Indication of Immediate Medical Attention and Special Treatment Needed:** Get medical attention immediately if product comes into contact with skin or eyes.

### SECTION 5: FIRE FIGHTING MEASURES

**Special Fire Fighting Procedures:** No unusual fire hazards.

**Extinguishing media:** Dry chemical, carbon dioxide, foam, water fog. Foam and water fog are effective but may cause frothing. Do not use direct water stream as oil may spread and frothing can be violent. Continue to cool fire-exposed containers after flames are extinguished.

**Protective Equipment:** Firefighters should wear a NIOSH approved, full face piece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout gear.

**Unusual Fire or Explosion Hazards:** Water may be used to keep fire-exposed containers cool and knock down vapors. Mists and sprays may be flammable at temperatures below normal flash point. No unusual fire hazards.

**Hazardous combustion products:** Combustion may produce oxides of carbon, lithium compounds and other oxidation products.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Protection:** Wear appropriate protective equipment (i.e., rubber gloves, apron, etc.) as necessary to avoid contact (see Section 8).

**Spill Procedures:** Isolate area of spill and scoop up spilled material. Avoid walking through spilled material. Prevent spills from reaching waterways. Scoop or wipe up spilled material and place in clean container for later disposal. Thoroughly remove residue to prevent slipping.

**Environmental Precautions and Clean-up Methods:** Scoop up spilled material and place in clean container for later disposal. Do not release into waterways.

### SECTION 7: HANDLING & STORAGE

**Precautions:** Store in a cool, dry, well ventilated area away from ignition sources and incompatible materials. Keep away from heat, sparks, flames and strong oxidizers when handling. Avoid skin and eye contact. Promptly change contaminated clothing and discard items that cannot be adequately cleaned (i.e., leather shoes). Wash thoroughly after handling and before meals and breaks. Empty containers may contain combustible product residue. Use appropriate precautions.

**Storage:** Store in a cool, dry, well ventilated area. Keep containers closed.



## SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

**Engineering Controls/Ventilation:** General ventilation is acceptable for ordinary handling. Local exhaust may be needed to control air contaminants when product is heated, or misting may occur.

**Eye Protection:** Wear eye and face protection. Wear safety goggles that meet ANSI Z87 standards and/or are tested and approved under appropriate government standards.

**Respiratory Protection:** None required under normal working conditions. If ventilation is insufficient to control air contaminants, select NIOSH approved respiratory protection according to the magnitude of exposure. Select and maintain respirators in accordance with OSHA 29 CFR 1910.134 (In Europe - Standard EN 149).

**Skin Protection:** Wear rubber gloves, apron and other clothing as necessary to prevent skin contact.

COMPONENT	% Weight	OSHA/PEL	ACGIH/TLV
Petroleum oil	64742-65-0; 64742-62-7	5 mg/m3* (oil mist)	TWA 5 mg/m3 * (oil mist) STEL 10 mg/m3 (oil mist)
Lithium hydroxy stearate (as lithium stearate)	4485-12-5	None established	TWA 0.2 mg/m3 (mineral oil mist - 2005 Notice of Intended Change) 10 mg/m3 (For stearates, except stearates of toxic metals)

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

- **Color:** Amber
- **Physical Form:** Semi-solid
- **Odor:** Bland
- **Odor Characteristics:** Not Known
- **Odor Threshold:** Not Known
- **pH (Undiluted):** Not Known
- **Flash Point:** Not Known
- **Flammability (Solid, Gas):** Not Known
- **Boiling Point:** Greater than 260°C (500°F)
- **Evaporation Rate:** Not Known
- **Melting Point:** Not Known
- **Lower Explosive Limit:** Not Known
- **Upper Explosive Limit:** Not Known
- **Vapor Pressure:** Less than 1 mmHg
- **Vapor Density:** Greater than 1
- **Specific Gravity:** 0.89
- **Solubility:** Insoluble in Water
- **Auto-ignition Temperature:** Not Known
- **Decomposition Temperature:** Not Known

## SECTION 10: STABILITY & REACTIVITY

**Stability:** Stable under normal use and storage conditions.

**Hazardous Polymerization:** Will not occur.

**Oxidizing Properties:** None known for product.

**Hazardous Decomposition Products:** Combustion may produce oxides of carbon and smaller amounts of toxic lithium, and other oxidation products.

**Incompatibilities:** Avoid contact with strong oxidizers (e.g., liquid chlorine, peroxides).

## SECTION 11: TOXICOLOGY INFORMATION

**Acute toxicity and immediate effects:**

**Oral LD50 (rat):** Petroleum oil - >5 g/mg; Lithium hydroxyl stearate - >15 g/mg

**Inhalation LC50 (rat):** Petroleum oil - >2-4 mg/l

**Dermal LD50:** Petroleum oil - >2,000 mg/kg

**Carcinogenicity:**

**IARC:** No

**NTP:** No

**OSHA:** No

**Mutagenicity:** No data is available for this material.

**Reproductive Toxicity:** No data is available for this material.

**Sensitization:** No data is available for this material.

## SECTION 12: ECOLOGICAL INFORMATION

No data is available for this material. Avoid exposure to environment whenever possible. This mixture has not been tested for persistence or biodegradation. Water accommodated fractions (WAF) of highly refined base oils did not produce acute toxicity in fish (100-1000 mg/l), fresh water algae (500 mg/l) or daphnia (10,000 mg/l) in 48-96 hour LC50 studies. Based on component data, this mixture is not expected to be readily biodegradable nor acutely toxic.

**Toxicity to Fish:** No data available.

**Ecotoxicological Information:** No data available.

**Chemical Fate Information:** No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

Recycle, reclaim and dispose of in accordance with applicable local, state and federal regulations for used or waste petroleum grease/oil. According to 40 CFR 112, this product is an oil; therefore, the US EPA requires that spills which reach surface waters must be reported to the National Response Center (800-424-8802). Dispose of wastes per 40 CFR Parts 261/262 or 279, as appropriate. If disposed as sold, this product would not be RCRA-regulated as a hazardous waste but may be regulated by state or local rules.

## SECTION 14: TRANSPORT INFORMATION

**Proper Shipping Name:** Not classified as hazardous by DOT, IATA/ICAO and IMO.

**Hazard Class:** Not classified as hazardous by DOT, IATA/ICAO and IMO.

**Packing Group:** Not classified as hazardous by DOT, IATA/ICAO and IMO.

**UN Number:** Not classified as hazardous by DOT, IATA/ICAO and IMO.

## SECTION 15: REGULATORY INFORMATION

**TSCA Inventory Status:** All ingredients are listed on the TSCA inventory.

**SARA Section 311/312 Hazard Categories:** Immediate (acute) hazards.

**Section 313 Toxic Chemicals:** This product does not contain ingredients subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.

**CERCLA RQ:** This product does not contain ingredients subject to the reporting requirements of SARA 304 (CERCLA) and 302 (EHS).

**California Proposition 65:** This product does not contain chemicals known to the State of California to cause cancer.

**WHMIS Classification:** D2B.

## SECTION 16: OTHER INFORMATION

**Revision Number:** Revision 2

**Revision Date:** June 2015

### Explanation of EU Directive 1272/2008 Codes

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves.
- P281 Use personal protective equipment as required.
- P302 + P352 If on skin: Wash with plenty of soap and water.
- P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 If exposed or concerned: Get medical advice/attention.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before re-use.
- P363 Wash contaminated clothing before re-use.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Abbreviations

CAS Chemical Abstracts Service  
CERCLA Comprehensive Environmental Response Compensation and Liability Act  
CFR US Code of Federal Regulations  
GHS Globally Harmonized System  
HCS Hazard Communication Standard  
HSIS Australia Hazardous Substance Information System  
IARC International Agency for Research on Cancer  
LD50 Lethal Dose to 50% of Exposed Laboratory Animals  
NA Not Available  
NIOSH US National Institute of Occupational Safety and Health  
NOEC No Observed Effect Concentration  
NTP US National Toxicology Program  
OSHA US Occupational Safety Health Administration  
PEL Permissible Exposure Limit  
RQ Reportable Quantity  
SARA Superfund Amendments and Reauthorization Act  
STEL Short Term Exposure Limit  
TSCA Toxic Substances Control Act  
TWA Time Weighted Average  
UN United Nations

### DISCLAIMER

The information in this SAFETY DATA SHEET should be provided to all who will use, handle, store, transport or otherwise be exposed to this material. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this material. Eaton's Crouse-Hinds Business believes this information to be reliable and up-to-date as of the date of publication, but makes no warranty that it is.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale," and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Cutting Oil Thread Cutting Lubricant

**Other means of identification**

**Product code** 14051, 14052

**Recommended use** Cutting oil

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufactured or sold by:**

**Company name** CRC Industries, Inc.  
**Address** 885 Louis Dr.  
Warminster, PA 18974 US

**Telephone**

**General Information** 215-674-4300

**Technical Assistance** 800-521-3168

**Customer Service** 800-272-4620

**24-Hour Emergency (CHEMTREC)** 800-424-9300 (US)

703-527-3887 (International)

**Website** www.crcindustries.com

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement**

**Prevention** Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

## 3. Composition/information on ingredients

**Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic		64742-52-5	80 - 90
Distillates (petroleum), solvent-refined heavy paraffinic		64741-88-4	10 - 20

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

## 4. First-aid measures

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.



<b>Skin contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Foam. Dry powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	<p>This product is miscible in water.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Use care in handling/storage. For product usage instructions, please see the product label.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	PEL	5 mg/m3	Mist.
		2000 mg/m3	

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

Components	Type	Value	Form
		500 ppm	

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	TWA	5 mg/m3	Inhalable fraction.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection****Hand protection**

Wear protective gloves such as: Nitrile. Neoprene.

**Other**

Wear suitable protective clothing.

**Respiratory protection**

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance****Physical state**

Liquid.

**Form**

Liquid.

**Color**

Brown.

**Odor**

Mild petroleum.

**Odor threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

Not available.

**Initial boiling point and boiling range**

500 °F (260 °C) estimated

<b>Flash point</b>	347 °F (175 °C) Tag Closed Cup
<b>Evaporation rate</b>	Slow.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	> 5 (air = 1)
<b>Relative density</b>	0.92
<b>Solubility (water)</b>	Negligible.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	500 °F (260 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity (kinematic)</b>	Not available.
<b>Percent volatile</b>	95 % estimated

## 10. Stability and reactivity

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<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Heat, flames and sparks. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides. Sulfur oxides. Aldehydes.

## 11. Toxicological information

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### Information on likely routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
Cutting Oil Thread Cutting Lubricant		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	4651 mg/kg estimated

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

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.

<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Further information</b>	This product has no known adverse effect on human health.

## 12. Ecological information

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

Product	Species		Test Results
Cutting Oil Thread Cutting Lubricant			
<b>Aquatic</b>			
Crustacea	EC50	Daphnia	6673.3398 mg/l, 48 hours estimated
<i>Acute</i>			
Fish	LC50	Fish	13043.4785 mg/l, 96 hours estimated
Components	Species		Test Results
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Fish	LC50	Pimephales promelas	> 30000 mg/l, 96 hours

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

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Disposal of waste from residues / unused products</b>	This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	Not regulated.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.

## 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**CERCLA Hazardous Substances: Reportable quantity**

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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

Not regulated.

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

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312 Hazard categories**  
Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**US state regulations**

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

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)  
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

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

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

**US. Massachusetts RTK - Substance List**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

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

Not listed.

**US. Rhode Island RTK**

None.

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**Volatile organic compounds (VOC) regulations**

**EPA**

**VOC content (40 CFR 51.100(s))** 100 %

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

**State**

**Consumer products** This product is regulated as a Cutting or Tapping Oil (non-aerosol). This product is compliant for use in all 50 states. Local restriction: This product cannot be used in the South Coast Air Quality Management District of California.

**VOC content (CA)** 0 %

**VOC content (OTC)** 0 %

## International Inventories

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

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

<b>Issue date</b>	04-20-2015
<b>Prepared by</b>	Allison Cho
<b>Version #</b>	01
<b>Further information</b>	Not available.
<b>HMIS® ratings</b>	Health: 1 Flammability: 0 Physical hazard: 0 Personal protection: B
<b>NFPA ratings</b>	Health: 1 Flammability: 0 Instability: 0

### NFPA ratings



### Disclaimer

CRC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.





# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Electrical Silicone Lubricant</b>
<b>Other means of identification</b>	
<b>Product code</b>	02094
<b>Recommended use</b>	Electrical silicone lubricant
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufactured or sold by:</b>	
<b>Company name</b>	CRC Industries, Inc.
<b>Address</b>	885 Louis Dr. Warminster, PA 18974 US
<b>Telephone</b>	
<b>General Information</b>	215-674-4300
<b>Technical Assistance</b>	800-521-3168
<b>Customer Service</b>	800-272-4620
<b>24-Hour Emergency (CHEMTREC)</b>	800-424-9300 (US) 703-527-3887 (International)
<b>Website</b>	www.crcindustries.com

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2B
	Reproductive toxicity (fertility, the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



**Signal word**

Danger

**Hazard statement**

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. Suspected of damaging fertility. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

## Precautionary statement

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not apply while equipment is energized. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.

### Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If exposed or concerned: Get medical attention. Collect spillage.

### Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

### Disposal

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

### Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

### Supplemental information

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride.

## 3. Composition/information on ingredients

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### Mixtures

Chemical name	Common name and synonyms	CAS number	%
naphtha (petroleum), hydrotreated light		64742-49-0	40 - 50
2-methylpentane		107-83-5	20 - 30
liquefied petroleum gas		68476-86-8	20 - 30
n-hexane		110-54-3	3 - 5

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

## 4. First-aid measures

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<b>Inhalation</b>	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.
<b>Skin contact</b>	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>Most important symptoms/effects, acute and delayed</b>	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

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<b>Suitable extinguishing media</b>	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
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<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire-fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
<b>General fire hazards</b>	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

## 6. Accidental release measures

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<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

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<b>Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.
<b>Conditions for safe storage, including any incompatibilities</b>	Level 3 Aerosol.  Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

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### Occupational exposure limits

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

Components	Type	Value
n-hexane (CAS 110-54-3)	PEL	1800 mg/m3 500 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
2-methylpentane (CAS 107-83-5)	STEL	1000 ppm
n-hexane (CAS 110-54-3)	TWA	500 ppm
	TWA	50 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
2-methylpentane (CAS 107-83-5)	Ceiling	1800 mg/m <sup>3</sup>
	TWA	510 ppm 350 mg/m <sup>3</sup> 100 ppm
n-hexane (CAS 110-54-3)	TWA	180 mg/m <sup>3</sup> 50 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
n-hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedion, without hydrolysis	Urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection****Hand protection**

Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton®.

**Other**

Wear appropriate chemical resistant clothing.

**Respiratory protection**

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance****Physical state**

Liquid.

**Form**

Aerosol.

**Color**

Clear. Water-white.

**Odor**

Mild solvent.

**Odor threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

Not available.

<b>Initial boiling point and boiling range</b>	118.4 °F (48 °C) estimated
<b>Flash point</b>	< 0 °F (< -17.8 °C) Tag Closed Cup
<b>Evaporation rate</b>	Fast.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	1 % estimated
<b>Flammability limit - upper (%)</b>	8 % estimated
<b>Vapor pressure</b>	1577.3 hPa estimated
<b>Vapor density</b>	> 1 (air = 1)
<b>Relative density</b>	0.81 estimated
<b>Solubility (water)</b>	Negligible.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	437 °F (225 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity (kinematic)</b>	Not available.
<b>Percent volatile</b>	97 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride.
<b>Incompatible materials</b>	Strong oxidizing agents. Acids.
<b>Hazardous decomposition products</b>	Carbon oxides. Nitrogen oxides (NOx). Hydrogen fluoride.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes eye irritation.
<b>Ingestion</b>	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Symptoms related to the physical, chemical and toxicological characteristics**      Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity**      May be fatal if swallowed and enters airways. Narcotic effects.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Electrical Silicone Lubricant		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	3460 mg/kg estimated
<b>Inhalation</b>		
LC50	Rat	58297 ppm, 4 hours estimated 55 mg/l, 4 hours estimated

Product	Species	Test Results
Oral LD50	Rat	6980 mg/kg estimated

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

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes eye irritation.
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Not listed.	
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>	
Not listed.	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
Not regulated.	
<b>Reproductive toxicity</b>	Suspected of damaging fertility. Suspected of damaging the unborn child.
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure: Nervous system. Upper respiratory tract. Skin. Eyes.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death.
<b>Chronic effects</b>	Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs.

## 12. Ecological information

<b>Ecotoxicity</b>	Toxic to aquatic life with long lasting effects.		
<b>Components</b>	<b>Species</b>	<b>Test Results</b>	
n-hexane (CAS 110-54-3)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	2.101 - 2.981 mg/l, 96 hours

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

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	
<b>Partition coefficient n-octanol / water (log Kow)</b>	
2-methylpentane	3.74
n-hexane	3.9
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Disposal of waste from residues / unused products</b>	If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	D001: Waste Flammable material with a flash point <140 F
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.



## 14. Transport information

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### DOT

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	N82
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

### IATA

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>ERG Code</b>	10L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

### IMDG

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS, LIMITED QUANTITY
<b>Transport hazard class(es)</b>	
<b>Class</b>	2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	F-D, S-U
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

## 15. Regulatory information

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**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.  
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

### **SARA 304 Emergency release notification**

Not regulated.

### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

### **US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

n-hexane (CAS 110-54-3)

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

n-hexane (CAS 110-54-3)

Listed.

### **CERCLA Hazardous Substances: Reportable quantity**

n-hexane (CAS 110-54-3)

5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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

n-hexane (CAS 110-54-3)

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

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**Food and Drug Administration (FDA)** Not regulated.**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312** Immediate Hazard - Yes  
**Hazard categories** Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No**US state regulations****US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

liquefied petroleum gas (CAS 68476-86-8)  
 naphtha (petroleum), hydrotreated light (CAS 64742-49-0)  
 n-hexane (CAS 110-54-3)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

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

2-methylpentane (CAS 107-83-5)  
 n-hexane (CAS 110-54-3)

**US. Massachusetts RTK - Substance List**

2-methylpentane (CAS 107-83-5)  
 n-hexane (CAS 110-54-3)

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

2-methylpentane (CAS 107-83-5)  
 n-hexane (CAS 110-54-3)

**US. Rhode Island RTK**

n-hexane (CAS 110-54-3)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**Volatile organic compounds (VOC) regulations****EPA****VOC content (40 CFR 51.100(s))** 97 %**Consumer products (40 CFR 59, Subpt. C)** Not regulated**State****Consumer products** Not regulated**VOC content (CA)** 97 %**VOC content (OTC)** 97 %**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

<b>Issue date</b>	05-07-2014
<b>Revision date</b>	06-23-2016
<b>Prepared by</b>	Allison Cho
<b>Version #</b>	03
<b>Further information</b>	CRC # 519A-D
<b>HMIS® ratings</b>	Health: 2* Flammability: 4 Physical hazard: 0 Personal protection: B
<b>NFPA ratings</b>	Health: 2 Flammability: 4 Instability: 0

### NFPA ratings



### Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.

### Revision Information

This document has undergone significant changes and should be reviewed in its entirety.

# SAFETY DATA SHEET

## SECTION 1

## PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** MOBIL DTE 25  
**Product Description:** Base Oil and Additives  
**Product Code:** 201560102020, 602631-00, 970826  
**Intended Use:** Hydraulic fluid

### COMPANY IDENTIFICATION

**Supplier:** EXXON MOBIL CORPORATION  
22777 Springwoods Village Parkway  
Spring, TX 77389 USA

**24 Hour Health Emergency** 609-737-4411  
**Transportation Emergency Phone** 800-424-9300 or 703-527-3887 CHEMTREC  
**Product Technical Information** 800-662-4525  
**MSDS Internet Address** www.exxon.com, www.mobil.com

## SECTION 2

## HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

**Other hazard information:**

**HAZARD NOT OTHERWISE CLASSIFIED (HNOC):** None as defined under 29 CFR 1910.1200.

### PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

### HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

### ENVIRONMENTAL HAZARDS

No significant hazards.

<b>NFPA Hazard ID:</b>	Health: 0	Flammability: 1	Reactivity: 0
<b>HMIS Hazard ID:</b>	Health: 0	Flammability: 1	Reactivity: 0

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary

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from person to person.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

#### Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	0.1 - < 1%	H400(M factor 1), H410(M factor 1)
CALCIUM SULFONATE	57855-77-3	0.1 - < 1%	H315, H319(2A), H317
PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYL HEXYL AND ISO-BU) ESTERS, ZINC SALTS.	68442-22-8	0.1 - < 1%	H303, H315, H318, H401, H411

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

### SECTION 4 FIRST AID MEASURES

#### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

#### SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

### SECTION 5 FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight Streams of Water

## FIRE FIGHTING

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Unusual Fire Hazards:** Pressurized mists may form a flammable mixture.

**Hazardous Combustion Products:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulfur oxides

## FLAMMABILITY PROPERTIES

**Flash Point [Method]:** >200°C (392°F) [ASTM D-92]

**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0

**Autoignition Temperature:** N/D

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

### PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

### SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material;



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however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

### ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
------------------	-----------------------------

#### HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

#### STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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#### EXPOSURE LIMIT VALUES

**Exposure limits/standards (Note: Exposure limits are not additive)**

Substance Name	Form	Limit / Standard		NOTE	Source
2,6-DI-TERT-BUTYL-P-CRESOL	Inhalable fraction and vapor	TWA	2 mg/m <sup>3</sup>		N/A ACGIH

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

#### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

## PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

## GENERAL INFORMATION

**Physical State:** Liquid  
**Color:** Brown  
**Odor:** Characteristic  
**Odor Threshold:** N/D

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### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 °C): 0.876  
 Flammability (Solid, Gas): N/A  
 Flash Point [Method]: >200°C (392°F) [ASTM D-92]  
 Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0  
 Autoignition Temperature: N/D  
 Boiling Point / Range: > 316°C (600°F)  
 Decomposition Temperature: N/D  
 Vapor Density (Air = 1): > 2 at 101 kPa  
 Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C  
 Evaporation Rate (n-butyl acetate = 1): N/D  
 pH: N/A  
 Log Pow (n-Octanol/Water Partition Coefficient): > 3.5  
 Solubility in Water: Negligible  
 Viscosity: 46 cSt (46 mm<sup>2</sup>/sec) at 40 °C | 6.7 cSt (6.7 mm<sup>2</sup>/sec) at 100°C  
 Oxidizing Properties: See Hazards Identification Section.

### OTHER INFORMATION

Freezing Point: N/D  
 Melting Point: N/A  
 Pour Point: -18°C (0°F)  
 DMSO Extract (mineral oil only), IP-346: < 3 %wt

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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### INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks
<b>Inhalation</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
<b>Ingestion</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
<b>Skin</b>	

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Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
<b>Sensitization</b>	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.
<b>Aspiration:</b> Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
<b>Carcinogenicity:</b> No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
<b>Reproductive Toxicity:</b> No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.
<b>Specific Target Organ Toxicity (STOT)</b>	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

## TOXICITY FOR SUBSTANCES

NAME	ACUTE TOXICITY
2,6-DI-TERT-BUTYL-P-CRESOL	Oral Lethality: LD50 0.89 g/kg (Rat)

## OTHER INFORMATION

### For the product itself:

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

### Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

The following ingredients are cited on the lists below: None.

### --REGULATORY LISTS SEARCHED--

1 = NTP CARC  
2 = NTP SUS

3 = IARC 1  
4 = IARC 2A

5 = IARC 2B  
6 = OSHA CARC

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<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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The information given is based on data available for the material, the components of the material, and similar materials.

**ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

**MOBILITY**

Base oil component -- Low solubility and floats and is expected to migrate from water to the land.  
Expected to partition to sediment and wastewater solids.

**PERSISTENCE AND DEGRADABILITY**

**Biodegradation:**

Base oil component -- Expected to be inherently biodegradable

**BIOACCUMULATION POTENTIAL**

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

**OTHER ECOLOGICAL INFORMATION**

**VOC:** 0 G/L [ASTM E1868-10]

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

**REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE

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SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**LAND (DOT):** Not Regulated for Land Transport

**LAND (TDG):** Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

**Marine Pollutant:** No

**AIR (IATA):** Not Regulated for Air Transport

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**OSHA HAZARD COMMUNICATION STANDARD:** This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

**Listed or exempt from listing/notification on the following chemical inventories:** AICS, DSL, ENCS, IECSC, KECI, PICCS, TSCA

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA (311/312) REPORTABLE GHS HAZARD CLASSES:** None.

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYL HEXYL AND ISO-BU) ESTERS, ZINC SALTS.	68442-22-8	15

--REGULATORY LISTS SEARCHED--

- |               |              |                   |             |
|---------------|--------------|-------------------|-------------|
| 1 = ACGIH ALL | 6 = TSCA 5a2 | 11 = CA P65 REPRO | 16 = MN RTK |
| 2 = ACGIH A1  | 7 = TSCA 5e  | 12 = CA RTK       | 17 = NJ RTK |
| 3 = ACGIH A2  | 8 = TSCA 6   | 13 = IL RTK       | 18 = PA RTK |

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4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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N/D = Not determined, N/A = Not applicable

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

H303: May be harmful if swallowed; Acute Tox Oral, Cat 5  
H315: Causes skin irritation; Skin Corr/Irritation, Cat 2  
H317: May cause allergic skin reaction; Skin Sensitization, Cat 1  
H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1  
H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A  
H400: Very toxic to aquatic life; Acute Env Tox, Cat 1  
H401: Toxic to aquatic life; Acute Env Tox, Cat 2  
H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1  
H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Composition: Component Table information was modified.  
Section 01: Company Contact Methods information was modified.  
Section 01: Company Mailing Address information was modified.  
Section 05: Hazardous Combustion Products information was modified.  
Section 07: Handling and Storage - Handling information was modified.  
Section 07: Handling and Storage - Storage Phrases information was modified.  
Section 11: Other Health Effects Header information was modified.  
Section 11: Other Health Effects information was added.  
Section 14: Marine Pollutant information was modified.  
Section 15: List Citations Table information was modified.  
Section 15: SARA (311/312) REPORTABLE GHS HAZARD CLASSES information was added.  
Section 15: SARA (311/312) REPORTABLE HAZARD CATEGORIES information was deleted.  
Section 16: HCode Key information was modified.

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Internal Use Only





Product Name: MOBIL DTE 25  
Revision Date: 28 Nov 2017  
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MHC: 0B, 0B, 0, 0, 0, 0

PPEC: A

DGN: 2007796XUS (1012764)

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MATERIAL SAFETY DATA SHEET

Ashland

Page 001

Date Prepared: 01/14/02

Date Printed: 02/04/02

MSDS No: 505.0338543-001.002

HYDRAULIC OIL

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: HYDRAULIC OIL

General or Generic ID: PETROLEUM BASED LUBRICATING OIL

Company

Ashland  
Ashland Distribution Co. &  
Ashland Specialty Chemical Co.  
P. O. Box 2219  
Columbus, OH 43216  
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)  
24 hours everyday

Regulatory Information Number:  
1-800-325-3751

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
SOLVENT-REFINED HEAVY PARAFFINIC DISTILLATE	64741-88-4	94.0-100.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

- Eye**  
May cause mild eye irritation.
- Skin**  
May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin.
- Swallowing**  
Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

MATERIAL SAFETY DATA SHEET

Shland

Page 002

Date Prepared: 01/14/02

Date Printed: 02/04/02

MSDS No: 505.0338543-001.002

HYDRAULIC OIL

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Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways), pain in the abdomen.

Target Organ Effects

No data

Developmental Information

No data

Cancer Information

No data

Other Health Effects

No data

Primary Route(s) of Entry

No data

---

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Continued on next page

MATERIAL SAFETY DATA SHEET

land.

Page 003

Date Prepared: 01/14/02

Date Printed: 02/04/02

MSDS No: 505.0338543-001.002

HYDRAULIC OIL

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Swallowing

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Note to Physicians

Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: skin.

---

FIRE FIGHTING MEASURES

Flash Point

> 400.0 F (204.4 C)

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Dense smoke may be generated while burning.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Continued on next page

MATERIAL SAFETY DATA SHEET

Shland

Page 004

Date Prepared: 01/14/02

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HYDRAULIC OIL

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Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

---

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

---

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Continued on next page

MATERIAL SAFETY DATA SHEET

Page 005

Date Prepared: 01/14/02

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HYDRAULIC OIL

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Storage

Not applicable

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

Skin Protection

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product., Wear normal work clothing covering arms and legs..

Respiratory Protections

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m3, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.)

Engineering Controls

Not required under normal conditions of use. However, if unusual operating conditions exist, then provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV (s).

Exposure Guidelines

Component

-----  
SOLVENT-REFINED HEAVY PARAFFINIC DISTILLATE (64741-88-4)  
OSHA VPEL 5.000 mg/m3 - TWA  
ACGIH TLV 5.000 mg/m3 - TWA

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

No data

Continued on next page

MATERIAL SAFETY DATA SHEET

Inland

Page 006

Date Prepared: 01/14/02

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HYDRAULIC OIL

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Vapor Pressure

No data

Specific Vapor Density

No data

Specific Gravity

.870 - .900 @ 60.00 F

Liquid Density

7.270 lbs/gal @ 60.00 F

.880 kg/l @ 15.60 C

Percent Volatiles (Including Water)

No data

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

No data

Color

LIGHT

Odor

PETROLEUM

pH

No data

Viscosity

19.8 - 165.0 cst @ 40 C

Continued on next page



MATERIAL SAFETY DATA SHEET

Page 007

Date Prepared: 01/14/02

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HYDRAULIC OIL

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10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability

Stable.

Incompatibility

Avoid contact with: strong oxidizing agents.

---

11. TOXICOLOGICAL INFORMATION

No data

---

12. ECOLOGICAL INFORMATION

No data

---

13. DISPOSAL CONSIDERATION

Waste Management Information

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

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14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

Continued on next page

MATERIAL SAFETY DATA SHEET

land

Page 008

Date Prepared: 01/14/02

Date Printed: 02/04/02

MSDS No: 505.0338543-001.002

HYDRAULIC OIL

Container/Mode:

No data

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed( ) Fire( ) Reactive( ) Sudden  
Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

None

International Regulations

Inventory Status

DSL (CANADA) The intentional ingredients of this product are listed.

State and Local Regulations

California Proposition 65

None

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashtland

Page 009

Date Prepared: 01/14/02

Date Printed: 02/04/02

MSDS No: 505.0338543-001.002

HYDRAULIC OIL

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16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Last page

SOURCE:ASHLAND INC WTR EASYWTR



## SICHERHEITSDATENBLATT

(REACH Verordnung (EG) Nr. 1907/2006 - Nr. 453/2010)

### ABSCHNITT 1 : BEZEICHNUNG DES STOFFS BZW. DES GEMISCHS UND DES UNTERNEHMENS

#### 1.1. Produktidentifikator

Produktname : LENOX PROTOOL LUBE

Produktcode : LEN001

#### 1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Schmiermittel.

#### 1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Unternehmen : NEWELL TOOLS NETHERLANDS B.V..

Adresse : Grasbeemd 6, 5705 DG, Helmond, The Netherlands.

Telefon : +31 (0) 492 509 509. Fax : +31 (0) 492 509 500.

E-mail: lenox.bandsaw@nr-europe.com

#### 1.4. Notrufnummer : +31 (0) 492 509 509.

Gesellschaft/Unternehmen : <http://www.centres-antipoison.net>

### ABSCHNITT 2 : MÖGLICHE GEFAHREN

#### 2.1. Einstufung des Stoffs oder Gemischs

##### Erfüllt die Richtlinie (EG) Nr. 1272/2008 und deren Adaptationen.

Ätz- auf die Haut, Kategorie 1B (Skin Corr. 1B, H314).

Sensibilisierung der Haut, Kategorie 1 (Skin Sens. 1, H317).

Spezifische Zielorgan-Toxizität (einmalige Exposition), Kategorie 3 (STOT SE 3, H335).

Dieses Gemisch birgt kein physikalisches Risiko. Siehe Empfehlungen zu anderen Produkten vor Ort.

Dieses Gemisch birgt kein Umweltrisiko. Unter normalen Verwendungsbedingungen ist keine umweltschädliche Wirkung bekannt oder vorhersehbar.

##### Erfüllt die Vorschriften 67/548/EWG, 1999/45/EG und deren Adaptationen.

Reizwirkung auf die Haut (Xi, R 38).

Augenreizung (Xi, R 36).

Reizung der Atemwege (Xi, R 37).

Sensibilisierung der Haut (Xi, R 43).

Dieses Gemisch birgt kein physikalisches Risiko. Siehe Empfehlungen zu anderen Produkten vor Ort.

Dieses Gemisch birgt kein Umweltrisiko. Unter normalen Verwendungsbedingungen ist keine umweltschädliche Wirkung bekannt oder vorhersehbar.

#### 2.2. Kennzeichnungselemente

##### Erfüllt die Richtlinie (EG) Nr. 1272/2008 und deren Adaptationen.

Gefahrenpiktogramme :



GHS05



GHS07

Signalwort :

GEFAHR

Produktidentifikatoren :

603-030-00-8

2-AMINO-ETHANOL

613-114-00-6

2,2',2''-(HEXAHYDRO-1,3,5-TRIAZIN-1,3,5-TRIYL)TRIETHANOL

Zusätzliche Etikettierung :

Gefahrenhinweise :

H314

Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

H317

Kann allergische Hautreaktionen verursachen.

- H335 Kann die Atemwege reizen.
- Sicherheitshinweise - Allgemeines :
- P101 Ist ärztlicher Rat erforderlich, Verpackung oder Kennzeichnungsetikett bereithalten.
- P102 Darf nicht in die Hände von Kindern gelangen.
- P103 Vor Gebrauch Kennzeichnungsetikett lesen.
- Sicherheitshinweise - Prävention :
- P260 Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.
- P264 Nach Gebrauch Hände gründlich waschen.
- P271 Nur im Freien oder in gut belüfteten Räumen verwenden.
- P280 Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen.
- Sicherheitshinweise - Reaktion :
- P301 + P330 + P331 BEI VERSCHLUCKEN: Mund ausspülen. KEIN Erbrechen herbeiführen.
- P303 + P361 + P353 BEI KONTAKT MIT DER HAUT (oder dem Haar): Alle beschmutzten, getränkten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen/duschen.
- P304 + P340 BEI EINATMEN: An die frische Luft bringen und in einer Position ruhigstellen, die das Atmen erleichtert.
- P305 + P351 + P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.
- P312 Bei Unwohlsein GIFTINFORMATIONSZENTRUM oder Arzt anrufen.
- P333 + P313 Bei Hautreizung oder -ausschlag: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.
- P363 Kontaminierte Kleidung vor erneutem Tragen waschen.
- Sicherheitshinweise - Lagerung :
- P403 + P233 Behälter dicht verschlossen an einem gut belüfteten Ort aufbewahren.
- Sicherheitshinweise - Entsorgung :
- P501 Inhalt/Behälter einem, den örtlichen Vorschriften entsprechenden, Entsorgungszentrum zuführen.

**Erfüllt die Vorschriften 67/548/EWG, 1999/45/EG und deren Adaptationen.**

Gefahrensymbole :



Reizend

Enthält :

613-114-00-6 2,2',2''-(HEXAHYDRO-1,3,5-TRIAZIN-1,3,5-TRIYL)TRIETHANOL

Gefahrenhinweise :

R 43 Sensibilisierung durch Hautkontakt möglich.

R 36/37/38 Reizt die Augen, Atmungsorgane und die Haut.

Sicherheitshinweise :

S 2 Darf nicht in die Hände von Kindern gelangen.

S 24 Berührung mit der Haut vermeiden.

S 37 Geeignete Schutzhandschuhe tragen.

S 46 Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung oder Etikett vorzeigen.

S 26 Bei Berührung mit den Augen sofort gründlich mit Wasser abspülen und Arzt konsultieren.

**2.3. Sonstige Gefahren**

Keine Angabe vorhanden.

**ABSCHNITT 3 : ZUSAMMENSETZUNG/ANGABEN ZU BESTANDTEILEN****3.1. Stoffe**

Keine Substanz erfüllt die im Anhang II Teil A der REACH Verordnung (EG) Nr. 1907/2006 aufgeführten Kriterien.

**3.2. Gemische****Zusammensetzung :**

Identifikation	Name	Klassifikation	%
INDEX: 603-030-00-8 CAS: 141-43-5 EC: 205-483-3	2-AMINO-ETHANOL	GHS05, GHS07, Dgr C H:332-312-302-314.1B R: 20/21/22-34	2.5 <= x % < 10
CAS: 102-71-6 EC: 203-049-8	2,2',2''-NITRILOTRIETHANOL		1 <= x % < 2.5

REACH: 01-2119486482			
INDEX: 613-114-00-6	2,2',2''-(HEXAHYDRO-1,3,5-T	GHS07, Wng	0 <= x % < 1
CAS: 4719-04-4	RIAZIN-1,3,5-TRIYL)TRIETHAN	Xn	
EC: 225-208-0	OL	H:302-317	
		R: 43-22	

## ABSCHNITT 4 : ERSTE-HILFE-MAßNAHMEN

Im Zweifelsfall oder wenn Symptome anhalten einen Arzt konsultieren.  
Einer bewusstlosen Person keinesfalls etwas über den Mund einflößen.

### 4.1. Beschreibung der Erste-Hilfe-Maßnahmen

#### Nach Einatmen :

Bei Einatmen größerer Mengen die Person an die frische Luft bringen, warm halten und ruhig stellen.  
Bewusstlose Personen in stabile Seitenlage bringen. In jedem Fall einen Arzt benachrichtigen, damit dieser beurteilt, ob eine Beobachtung und eine stationäre symptomatische Behandlung erforderlich sind.  
Bei unregelmäßiger Atmung oder Atemstillstand künstliche Beatmung vornehmen und einen Arzt rufen.

#### Nach Augenkontakt :

Bei geöffnetem Augenlid mindestens 15 Minuten lang gründlich mit weichem, sauberem Wasser spülen.  
Betroffene Person unabhängig vom anfänglichen Zustand zum Augenarzt schicken und das Etikett vorzeigen.

#### Nach Hautkontakt :

Beschmutzte und getränkte Kleidung ausziehen und die Haut gründlich mit Wasser und Seife oder einem geeigneten Reinigungsmittel abwaschen.

Verschmutzte oder bespritzte Kleidung sofort ablegen.

Auf Produktrückstände zwischen Haut und Kleidung, Armbanduhr, Schuhen usw. achten.

Bei Allergieanzeichen einen Arzt konsultieren.

Bei großflächiger Kontamination und/oder Verletzung der Haut muss ein Arzt herangezogen oder die betroffene Person ins Krankenhaus überführt werden.

#### Nach Verschlucken :

Nichts über den Mund einnehmen lassen.

Bei Einnahme kleiner Mengen (nicht mehr als ein Schluck) Mund mit Wasser ausspülen und einen Arzt konsultieren.

Sofort einen Arzt rufen und ihm das Etikett zeigen.

### 4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Keine Angabe vorhanden.

### 4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Keine Angabe vorhanden.

## ABSCHNITT 5 : MAßNAHMEN ZUR BRANDBEKÄMPFUNG

Nicht entzündbar.

### 5.1. Löschmittel

#### Geeignete Löschmittel

Im Brandfall spezifische Löschmittel einsetzen.

### 5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren

Bei Brand entsteht oft dichter, schwarzer Rauch. Die Exposition gegenüber Zersetzungsprodukten kann gesundheitsschädlich sein.  
Rauch nicht einatmen.

Im Brandfall kann sich bilden :

- Kohlenmonoxid (CO)
- Kohlenstoffdioxid (CO<sub>2</sub>)

### 5.3. Hinweise für die Brandbekämpfung

Keine Angabe vorhanden.

## ABSCHNITT 6 : MAßNAHMEN BEI UNBEABSICHTIGTER FREISETZUNG

### 6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Schutzmaßnahmen in den Abschnitten 7 und 8 befolgen.

#### Für Nicht-Rettungspersonal

Einatmen von Dämpfen vermeiden.

Berührung mit Haut und Augen vermeiden.

Bei Auslaufen/Freisetzung großer Mengen unbeteiligte Personen entfernen und nur ausgebildetes Personal mit Schutzausrüstung eingreifen

lassen.

#### Für Rettungspersonal

Das Einsatzpersonal muss mit angemessener persönlicher Schutzausrüstung ausgestattet sein (siehe Abschnitt 8).

#### 6.2. Umweltschutzmaßnahmen

Leckagen oder Verschüttetes mit flüssigkeitsbindendem, nicht-brennbarem Material aufhalten und auffangen, z.B.: Sand, Erde, Universalbindemittel, Diatomeenerde in Fässern zur Entsorgung des Abfalls.

Eindringen in die Kanalisation oder in Gewässer verhindern.

#### 6.3. Methoden und Material für Rückhaltung und Reinigung

Mit einem sauren Dekontaminationsmittel neutralisieren.

Bei Bodenverschmutzung und nach Auffangen des Produkts durch Aufsaugen mit neutralem, nicht-brennbarem Bindemittel, beschmutzte Fläche mit reichlich Wasser waschen.

Vorzugsweise mit einem Waschmittel reinigen, keine organischen Lösemittel verwenden.

#### 6.4. Verweis auf andere Abschnitte

Keine Angabe vorhanden.

## ABSCHNITT 7 : HANDHABUNG UND LAGERUNG

Für die Räumlichkeiten, in denen mit dem Gemisch gearbeitet wird, gelten die Vorschriften für Lagerstätten.

Personen mit einer Vorgeschichte von Hautsensibilisierung dürfen dieses Gemisch auf keinen Fall verwenden.

#### 7.1. Schutzmaßnahmen zur sicheren Handhabung

Nach jeder Verwendung die Hände waschen.

Verunreinigte Kleidung vor erneutem Gebrauch ablegen und waschen.

Ständige Sicherheitsduschen und Augenduschsysteme in den Räumlichkeiten, in denen das Gemisch verwendet wird, vorsehen.

#### Hinweise zum Brand- und Explosionsschutz :

In gut durchlüfteten Bereichen handhaben.

Zugang für unbefugte Personen verhindern.

#### Hinweise zum sicheren Umgang :

Für den persönlichen Schutz, siehe Abschnitt 8.

Informationen des Etiketts und Vorschriften des Arbeitsschutzes beachten.

Einatmen von Dämpfen vermeiden. Jede industrielle Arbeit mit möglicher Bildung von Dämpfen/Nebel usw. in geschlossener Apparatur durchführen.

Dampfabsaugung an der Emissionsquelle sowie allgemeine Raumlüftung vorsehen.

Außerdem geeignetes Atemschutzgerät für kurzzeitige Arbeiten und Noteingriffe bereitstellen.

Emissionen grundsätzlich am Entstehungsort auffangen.

#### Unzulässige Ausrüstung und Arbeitsweise :

Rauchen, Essen und Trinken sind in den Räumlichkeiten, in denen das Gemisch verwendet wird, verboten.

#### 7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Keine Angabe vorhanden.

#### Lagerung

Außer Reichweite von Kindern halten.

Behälter gut verschlossen an einem trockenen und gut durchlüfteten Ort lagern.

#### Verpackung

Produkt stets in einer Verpackung aufbewahren, die der Original-Verpackung entspricht.

#### 7.3. Spezifische Endanwendungen

Keine Angabe vorhanden.

## ABSCHNITT 8 : BEGRENZUNG UND ÜBERWACHUNG DER EXPOSITION/PERSÖNLICHE SCHUTZAUSRÜSTUNGEN

#### 8.1. Zu überwachende Parameter

##### Grenzwerte für die Exposition am Arbeitsplatz :

- Europäische Union (2009/161/EU, 2006/15/EG, 2000/39/EG, 98/24/EG)

CAS	VME-mg/m <sup>3</sup> :	VME-ppm :	VLE-mg/m <sup>3</sup> :	VLE-ppm :	Hinweise :
141-43-5	2.5	1	7.6	3	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Obergrenze :	Definition :	Kriterien :
141-43-5	3 ppm	6 ppm	-	-	-
102-71-6	5 mg/m <sup>3</sup>	-	-	-	-

- Deutschland - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Überschreitung	Anmerkungen



141-43-5	2 ml/m3	5,1 mg/m3	2(l)	DFG, H, Y	
----------	---------	-----------	------	-----------	--

- Belgien (Arrêté du 19/05/2009, 2010) :

CAS	TWA :	STEL :	Obergrenze :	Definition :	Kriterien :
141-43-5	3 ppm	6 ppm	-	-	-
102-71-6	5 mg/m3	-	-	-	-

- Frankreich (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Hinweise :	TMP N° :
141-43-5	1	2.5	3	7.6	-	49, 49 Bis

- Großbritannien / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Obergrenze :	Definition :	Kriterien :
141-43-5	3 ppm	6 ppm	-	-	-

## 8.2. Begrenzung und Überwachung der Exposition

### Persönliche Schutzmaßnahmen wie persönliche Schutzausrüstungen

Piktogramm(e) für obligatorisches Tragen von persönlicher Schutzausrüstung (PSA) :



Saubere und richtig gepflegte persönliche Schutzausrüstungen verwenden.

Persönliche Schutzausrüstungen an einem sauberen Ort, außerhalb des Arbeitsbereiches aufbewahren.

Während der Verwendung nicht Essen, Trinken oder Rauchen. Verunreinigte Kleidung vor erneutem Gebrauch ablegen und waschen. Für angemessene Lüftung sorgen, insbesondere in geschlossenen Räumen.

#### - Schutz für Augen/Gesicht

Berührung mit den Augen vermeiden.

Augenschutz gegen flüssige Spritzer verwenden.

Bei jeder Verwendung ist eine der Norm EN 166 entsprechende Schutzbrille mit seitlichem Schutz zu tragen.

Bei erhöhter Gefahr einen Gesichtsschirm zum Schutz des Gesichts verwenden.

Das Tragen einer Korrektionsbrille stellt keinen Schutz dar.

Kontaktlinsenträgern wird empfohlen, während Arbeiten, bei denen reizende Dämpfe entstehen können, Korrekturgläser zu verwenden.

Augenduschsysteme in den Räumlichkeiten, in denen das Produkt verwendet wird, vorsehen.

#### - Handschutz

Bei längerem oder wiederholtem Hautkontakt geeignete Schutzhandschuhe tragen.

Geeignete chemikalienbeständige Schutzhandschuhe gemäß Norm EN 374 verwenden.

Die Handschuhe sind entsprechend der Verwendung und der Verwendungsdauer am Arbeitsplatz zu wählen.

Schutzhandschuhe müssen dem Arbeitsplatz entsprechend gewählt werden : andere Chemikalien könnten verändert werden, erforderliche physische Schutzmaßnahmen (Schneiden, Stechen, Wärmeschutz), benötigte Fingerfertigkeit.

Empfohlener Typ Handschuhe :

- Naturlatex
- Nitrilkautschuk (Acrylnitril-Butadien-Copolymer (NBR))
- PVC (Polyvinylchlorid)
- Butylkautschuk (Isobutylen-Isopren-Copolymer)

Empfohlene Eigenschaften:

- Wasserundurchlässige Handschuhe gemäß Norm EN 374

#### - Körperschutz

Hautkontakt vermeiden.

Geeignete Schutzkleidung tragen.

Art geeigneter Schutzbekleidung :

Bei starkem Spritzen flüssigkeitsdichte chemische Schutzkleidung (Typ 3) gemäß EN 14605 tragen, um jeglichen Hautkontakt zu vermeiden.

Bei Spritzgefahr chemische Schutzkleidung (Typ 6) gemäß EN 13034 tragen, um jeglichen Hautkontakt zu vermeiden.

Geeignete Schutzkleidung und insbesondere eine Schürze und Stiefel tragen. Diese sind in gutem Zustand zu halten und nach der Verwendung zu reinigen.

Das Personal hat regelmäßig gewaschene Arbeitskleidung zu tragen.

Nach Kontakt mit dem Produkt müssen alle beschmutzten Körperpartien gewaschen werden.

#### - Atemschutz

Keine Dämpfe einatmen.

Bei unzureichender Belüftung ist ein angemessenes Atemschutzgerät zu tragen.

Wenn Arbeiter Konzentrationen ausgesetzt sind, welche die Expositionsgrenzwerte überschreiten, müssen sie ein angemessenes und zugelassenes Atemschutzgerät tragen.

Gas- und Dampffilter (Kombifilter) gemäß Norm EN 14387 :

- A1 (Braun)

**ABSCHNITT 9 : PHYSIKALISCHE UND CHEMISCHE EIGENSCHAFTEN****9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften****Allgemeine Angaben :**

Form :	dünnflüssige Flüssigkeit
--------	--------------------------

**Wichtige Angaben zum Gesundheits- und Umweltschutz sowie zur Sicherheit :**

pH :	8.50 .
	schwach alkalisch (basisch)
Flammpunktbereich :	nicht relevant
Dampfdruck :	keine Angabe
Dichte :	> 1
Wasserlöslichkeit :	verdünubar, mischbar
Schmelzpunkt/Schmelzbereich h:	-25 °C.

**9.2. Sonstige Angaben**

Keine Angabe vorhanden.

**ABSCHNITT 10 : STABILITÄT UND REAKTIVITÄT****10.1. Reaktivität**

Keine Angabe vorhanden.

**10.2. Chemische Stabilität**

Dieses Gemisch ist bei Einhaltung der in Abschnitt 7 empfohlenen Vorschriften zu Handhabung und Lagerung stabil.

**10.3. Möglichkeit gefährlicher Reaktionen**

Keine Angabe vorhanden.

**10.4. Zu vermeidende Bedingungen**

Vermeiden :

- Frost

**10.5. Unverträgliche Materialien**

Fernhalten von :

- Oxidationsmittel
- Säuren
- Laugen

**10.6. Gefährliche Zersetzungsprodukte**

Die thermische Zersetzung kann freisetzen/bilden :

- Kohlenmonoxid (CO)
- Kohlenstoffdioxid (CO<sub>2</sub>)

**ABSCHNITT 11 : TOXIKOLOGISCHE ANGABEN****11.1. Angaben zu toxikologischen Wirkungen**

Kann zu irreversiblen Hautschädigungen führen, wie zum Beispiel einer sichtbaren, durch die Epidermis bis in die Dermis reichenden, Nekrose in Folge einer Exposition für eine Dauer zwischen 3 Minuten und einer Stunde.

Reaktionen auf Ätzwirkungen sind durch Geschwüre, Blutungen, blutige Verschorfungen und, am Ende eines Beobachtungszeitraums von 14 Tagen, als Verfärbung durch Ausbleichen der Haut, kahler Stellen und Narben gekennzeichnet.

Reizende Wirkungen können zu einer funktionellen Beeinträchtigung des Atmungssystems führen und mit Symptomen wie Husten, Schmerzen, Atemnot und allgemeinen Atembeschwerden einhergehen.

Kann bei Hautkontakt eine allergische Reaktion hervorrufen.

**11.1.1. Stoffe**

Für die Substanzen sind keine toxikologischen Informationen vorhanden.

**11.1.2. Gemisch**

Für das Gemisch sind keine toxikologischen Informationen vorhanden.

**Monografie(n) des IARC (Internationales Zentrum der Krebsforschung) :**

CAS 102-71-6 : IARC Gruppe 3 : Der Stoff ist hinsichtlich der Karzinogenität für den Menschen nicht einstuftbar.

**ABSCHNITT 12 : UMWELTBEZOGENE ANGABEN****12.1. Toxizität****12.1.1. Substanzen**

Für die Substanzen sind keine Informationen zur aquatischen Toxizität vorhanden.

#### 12.1.2. Gemische

Für das Gemisch sind keine Informationen zur aquatischen Toxizität vorhanden.

#### 12.2. Persistenz und Abbaubarkeit

Keine Angabe vorhanden.

#### 12.3. Bioakkumulationspotenzial

Keine Angabe vorhanden.

#### 12.4. Mobilität im Boden

Keine Angabe vorhanden.

#### 12.5. Ergebnisse der PBT- und vPvB-Beurteilung

Keine Angabe vorhanden.

#### 12.6. Andere schädliche Wirkungen

Keine Angabe vorhanden.

#### Deutsche Verordnung zur Klassifizierung der Wassergefährdung (WGK) :

WGK 1 (VwVwS vom 27/07/2005, KBws) : Schwach wassergefährdend.

### ABSCHNITT 13 : HINWEISE ZUR ENTSORGUNG

Abfälle des Gemischs und/oder ihr Behältniss sind entsprechend den Bestimmungen der Richtlinie 2008/98/EG zu entsorgen.

#### 13.1. Verfahren der Abfallbehandlung

Nicht in die Kanalisation oder in Gewässer einleiten.

#### Abfälle :

Die Abfallentsorgung muss ohne Risiken für Mensch und Umwelt, insbesondere für Wasser, Luft, Böden, Fauna und Flora erfolgen. Entsorgung oder Verwertung gemäß gültiger Gesetzgebung vorzugsweise durch einen zugelassenen Abfallsammler oder einen Entsorgungsfachbetrieb.

Boden oder Grundwasser nicht verseuchen, Abfälle nicht in der Umwelt entsorgen.

#### Verschmutzte Verpackungen :

Behälter nur restentleert entsorgen. Etikett(en) auf dem Behälter nicht entfernen.

Rückgabe an ein zugelassenes Entsorgungsunternehmen.

### ABSCHNITT 14 : ANGABEN ZUM TRANSPORT

Das Produkt muß in Übereinstimmung mit den ADR-Bestimmungen für den Straßenverkehr, RID-Bestimmungen für den Bahntransport, IMDG-Bestimmungen für den Seetransport, ICAO/IATA-Bestimmungen für den Lufttransport befördert werden (ADR 2011 - IMDG 2010 - ICAO/IATA 2012).

#### 14.1. UN-Nummer

3267

#### 14.2. Ordnungsgemäße UN-Versandbezeichnung

UN3267=ÄTZENDER BASISCHER ORGANISCHER FLÜSSIGER STOFF, N.A.G.  
(2-amino-ethanol)

#### 14.3. Transportgefahrenklassen

- Einstufung :



8

#### 14.4. Verpackungsgruppe

III

#### 14.5. Umweltgefahren

-

#### 14.6. Besondere Vorsichtsmaßnahmen für den Verwender

ADR/RID	Klasse	Kode	PG	Gefahr-Nr	EmS	LQ	Dispo.	EQ	Kat.	Tunnel
	8	C7	III	8	80	5 L	274	E1	3	E
IMDG	Klasse	2. GZ-Nr.	PG	LQ	Ems	Dispo.	EQ			
	8	-	III	5 L	F-A,S-B	223 274	E1			

IATA	Klasse	2. GZ-Nr.	PG	Passagier	Passagier	Fracht	Fracht	Anm.	EQ
	8	-	III	852	5 L	856	60 L	A3 A803	E1
	8	-	III	Y841	1 L	-	-	A3 A803	E1

**14.7. Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens 73/78 und gemäß IBC-Code**

Keine Angabe vorhanden.

**ABSCHNITT 15 : RECHTSVORSCHRIFTEN****15.1. Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**

Verpackungen müssen mit einem kindergesicherten Verschluss versehen sein (siehe Verordnung (EG) Nr. 1272/2008, Anhang II, Teil 3).

Verpackungen müssen mit einem ertastbaren Warnzeichen versehen sein (siehe Verordnung (EG) Nr. 1272/2008, Anhang II, Teil 3).

**- Besondere Bestimmungen :**

Keine Angabe vorhanden.

**Deutsche Verordnung zur Klassifizierung der Wassergefährdung (WGK) :**

Wassergefährdungsklasse : Schwach wassergefährdend WGK 1 (VwVwS vom 27/07/2005, KBws)

**15.2. Stoffsicherheitsbeurteilung**

Keine Angabe vorhanden.

**ABSCHNITT 16 : SONSTIGE ANGABEN**

Da wir über die Arbeitsbedingungen des Benutzers keine Informationen besitzen, beruhen die Informationen im vorliegenden Sicherheitsdatenblatt auf dem Stand unserer Kenntnisse und dem nationalen und EG-Regelwerk.

Ohne schriftliche Anweisungen zur Handhabung im Vorfeld, darf das Gemisch nur für die in Rubrik 1 genannten Verwendungen eingesetzt werden.

Der Anwender ist dafür verantwortlich, dass alle notwendigen Maßnahmen getroffen werden zur Einhaltung gesetzlicher Forderungen und lokaler Vorschriften.

Die Informationen des vorliegenden Sicherheitsdatenblattes sind als eine Beschreibung der Sicherheitsanforderungen für dieses Gemisch zu betrachten und nicht als Garantie für dessen Eigenschaften.

**Wortlaut der in Abschnitt 3 erwähnten Hinweise H, EUH und R :**

H302	Gesundheitsschädlich bei Verschlucken.
H312	Gesundheitsschädlich bei Hautkontakt.
H314	Verursacht schwere Verätzungen der Haut und schwere Augenschäden.
H317	Kann allergische Hautreaktionen verursachen.
H332	Gesundheitsschädlich bei Einatmen.
R 20/21/22	Gesundheitsschädlich beim Einatmen, Verschlucken und Berührung mit der Haut.
R 22	Gesundheitsschädlich beim Verschlucken.
R 34	Verursacht Verätzungen.
R 43	Sensibilisierung durch Hautkontakt möglich.

**Abkürzungen :**

ADR : Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Strasse

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Internationale Zivilluftfahrt-Organisation.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse.

GHS05 : Ätzwirkung

GHS07 : Ausrufezeichen



# SAFETY DATA SHEET

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

### 1.1. Product identifier

Trade name or designation of the mixture	LPS® 1 (Aerosol)
Registration number	-
Synonyms	None.
Part Number	00116, M00116
Issue date	01-October-2014
Version number	02
Revision date	16-September-2015
Supersedes date	26-October-2014

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

Identified uses	An industrial lubricant designed to displace moisture from mechanical and electrical equipment, provide light-duty lubrication and short-term rust prevention.
Uses advised against	None known.

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

Supplier	Alsco Ltd
Company name	Unit 13 Hillmead Industrial Estate
Address	Marshall Road Swindon, Wiltshire United Kingdom SN5 5FZ
Telephone	+44 1793 733 900
In Case of Emergency	+001 703-527-3887
Manufacturer	
Company name	ITW Pro Brands
Address	4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)
Website	<a href="http://www.lpslabs.com">http://www.lpslabs.com</a>
e-mail	<a href="mailto:lpssds@itwprobrands.com">lpssds@itwprobrands.com</a>

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** F+;R12, Xn;R20, Xi;R38, R43-67, R52/53

The full text for all R-phrases is displayed in section 16.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Aerosols	Category 1	H222 - Extremely flammable aerosol. H229 - Pressurized container: May burst if heated.
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##### Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Skin sensitisation	Category 1B	H317 - May cause an allergic skin reaction.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
--	------------	---

## Hazard summary

<b>Physical hazards</b>	Extremely flammable.
<b>Health hazards</b>	May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child. Also harmful by inhalation. Irritating to skin. May cause sensitisation by skin contact. Vapours may cause drowsiness and dizziness. Occupational exposure to the substance or mixture may cause adverse health effects.
<b>Environmental hazards</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Specific hazards</b>	Irritating to skin. May cause sensitisation by skin contact. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Main symptoms</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Rash. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

## 2.2. Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Calcium Sulfonate, Carbon dioxide, Distillates Petroleum Hydrotreated Med, Distillates Petroleum, Hydrotreated Light, Sorbitan trioleate

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

## Precautionary statements

### Prevention

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	Pressurised container: Do not pierce or burn, even after use.
P261	Avoid breathing gas.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.

### Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P321	Specific treatment (see this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

### Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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**Supplemental label information** 73,03 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

**2.3. Other hazards** None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Distillates Petroleum, Hydroteated Light	70 - 80	64742-47-8 265-149-8	-	649-422-00-2	
<b>Classification:</b>		<b>DSD:</b> Xn;R65			
		<b>CLP:</b> Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336			
Distillates Petroleum Hydrotreated Med	10 - 20	64742-46-7 265-148-2	-	649-221-00-X	Note N
<b>Classification:</b>		<b>DSD:</b> Carc. Cat. 2;R45			N
		<b>CLP:</b> Asp. Tox. 1;H304, Acute Tox. 4;H332, Carc. 1B;H350, Aquatic Chronic 2;H411			N
Carbon dioxide	1 - 5	124-38-9 204-696-9	-	-	#
<b>Classification:</b>		<b>DSD:</b> -			
		<b>CLP:</b> -			
Sorbitan trioleate	1 - 3	26266-58-0 247-569-3	-	-	
<b>Classification:</b>		<b>DSD:</b> -			
		<b>CLP:</b> -			
Calcium Sulfonate	0,1 - 1	61789-86-4 263-093-9	-	-	
<b>Classification:</b>		<b>DSD:</b> -			
		<b>CLP:</b> Skin Sens. 1B;H317			

### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

Note N: The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 4.1. Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**4.2. Most important symptoms and effects, both acute and delayed** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Rash. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.



## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Extremely flammable aerosol.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Powder. Alcohol resistant foam. Water spray. Dry chemicals. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapours or divert vapour cloud drift. Isolate area until gas has dispersed. Dike far ahead of spill for later disposal. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water.
<b>6.4. Reference to other sections</b>	Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).
<b>7.3. Specific end use(s)</b>	Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	Ceiling	18000 mg/m <sup>3</sup>
		10000 ppm
	MAK	9000 mg/m <sup>3</sup> 5000 ppm

**Belgium. Exposure Limit Values.**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54784 mg/m <sup>3</sup>
	TWA	30000 ppm 9131 mg/m <sup>3</sup> 5000 ppm

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	MAC	9000 mg/m <sup>3</sup>
		5000 ppm

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	Ceiling	45000 mg/m <sup>3</sup>
	TWA	9000 mg/m <sup>3</sup>

**Denmark. Exposure Limit Values**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m <sup>3</sup>
		5000 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Finland. Workplace Exposure Limits**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m <sup>3</sup>
		5000 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	VME	9000 mg/m <sup>3</sup>
		5000 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m <sup>3</sup>	
		5000 ppm	
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	TWA	140 mg/m <sup>3</sup>	Vapor and aerosol.
		20 ppm	Vapor and aerosol.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	AGW	9100 mg/m <sup>3</sup>
		5000 ppm

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m <sup>3</sup>
	TWA	5000 ppm 9000 mg/m <sup>3</sup> 5000 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	27000 mg/m <sup>3</sup>
	TWA	15000 ppm 9000 mg/m <sup>3</sup> 5000 ppm

**Italy. Occupational Exposure Limits**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Netherlands. OELs (binding)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m <sup>3</sup>
		5000 ppm

**Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	27000 mg/m <sup>3</sup>
	TWA	9000 mg/m <sup>3</sup>

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9150 mg/m <sup>3</sup>
		5000 ppm

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	18000 mg/m <sup>3</sup>
		10000 ppm
	TWA	9000 mg/m <sup>3</sup> 5000 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m <sup>3</sup>
		15000 ppm
	TWA	9150 mg/m <sup>3</sup> 5000 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m <sup>3</sup>

Components	Type	Value
		5000 ppm
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).	
<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.	
<b>Derived no-effect level (DNEL)</b>	Not available.	
<b>Predicted no effect concentrations (PNECs)</b>	Not available.	
<b>8.2. Exposure controls</b>		
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
<b>Individual protection measures, such as personal protective equipment</b>		
<b>General information</b>	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).	
<b>Skin protection</b>		
- <b>Hand protection</b>	Chemical resistant gloves are recommended.	
- <b>Other</b>	Avoid contact with the skin. Wear appropriate chemical resistant clothing.	
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.	
<b>Thermal hazards</b>	Not applicable.	
<b>Hygiene measures</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	
<b>Environmental exposure controls</b>	Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.	

## SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Physical state</b>	Gas.
<b>Form</b>	Aerosol
<b>Colour</b>	Amber.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable
<b>Melting point/freezing point</b>	< -50 °C (< -58 °F)
<b>Initial boiling point and boiling range</b>	213 °C (415,4 °F)
<b>Flash point</b>	79,0 °C (174,2 °F) Tag closed cup (dispensed liquid)
<b>Evaporation rate</b>	< 0,1 (BuAc = 1)
<b>Flammability (solid, gas)</b>	Flammable gas.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	0,6 %
<b>Flammability limit - upper (%)</b>	7 %
<b>Vapour pressure</b>	< 0,05 mm Hg @ 20°C
<b>Vapour density</b>	> 1 (Air = 1)
<b>Relative density</b>	0,79 - 0,81 @ 20°C
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not soluble
<b>Solubility (other)</b>	Not available.

<b>Partition coefficient (n-octanol/water)</b>	< 1
<b>Auto-ignition temperature</b>	> 228 °C (> 442,4 °F)
<b>Decomposition temperature</b>	Not established
<b>Viscosity</b>	< 3,8 cSt @ 25°C
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Heat of combustion</b>	Not established
<b>Percent volatile</b>	95 - 96 %
<b>VOC (Weight %)</b>	0,4 % per US State & Federal Consumer Product Regulations

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Strong oxidising agents.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	Carbon oxides.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May be fatal if swallowed and enters airways.

**Symptoms** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Exposure may cause temporary irritation, redness, or discomfort. Defatting of the skin. Rash. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Decrease in motor functions. Behavioural changes.

### 11.1. Information on toxicological effects

**Acute toxicity** Narcotic effects. May cause an allergic skin reaction.

Components	Species	Test results
Calcium Sulfonate (CAS 61789-86-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 4000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	> 1,9 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Distillates Petroleum Hydrotreated Med (CAS 64742-46-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
<b>Inhalation</b>		
LC50	Rat	7640 mg/m <sup>3</sup> , 4 Hours
<i>Aerosol</i>		
LC50	Rat	1,72 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg

Components	Species	Test results
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg > 2000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Cat	> 6,4 mg/l, 6 Hours
	Rat	> 7,5 mg/l, 6 Hours > 4,3 mg/l, 4 Hours
<i>Vapour</i>		
LC50	Rat	> 0,1 mg/l, 8 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Sorbitan trioleate (CAS 26266-58-0)		
<b>Acute</b>		
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	> 5,27 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 39800 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Respiratory sensitisation</b>	Not a respiratory sensitizer.	
<b>Skin sensitisation</b>	May cause an allergic skin reaction.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Narcotic effects.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Not likely, due to the form of the product.	
<b>Mixture versus substance information</b>	No information available.	
<b>Other information</b>	Not available.	

## SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects.

Components	Species	Test results
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)		
<b>Aquatic</b>		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2,9 mg/l, 96 hours

**12.2. Persistence and degradability** Not inherently biodegradable.

**12.3. Bioaccumulative potential** Not available.

**Partition coefficient n-octanol/water (log Kow)**

LPS® 1 (Aerosol) < 1

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.



12.5. Results of PBT and vPvB assessment Not available.

12.6. Other adverse effects None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

**EU waste code** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special precautions** Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, flammable

14.3. Transport hazard class(es)

Class 2.1

Subsidiary risk -

Label(s) 2.1

Hazard No. (ADR) Not available.

Tunnel restriction code D

14.4. Packing group Not applicable.

14.5. Environmental hazards No

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

### RID

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, flammable

14.3. Transport hazard class(es)

Class 2.1

Subsidiary risk -

Label(s) 2.1

14.4. Packing group Not applicable.

14.5. Environmental hazards No

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

### ADN

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, [flammable]

14.3. Transport hazard class(es)

Class 2.1

Subsidiary risk -

Label(s) 2.1

14.4. Packing group Not applicable.

14.5. Environmental hazards No

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

### IATA

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, flammable

14.3. Transport hazard class(es)

Class 2.1

Subsidiary risk	-
14.4. Packing group	Not applicable.
14.5. Environmental hazards	No
ERG Code	10L
14.6. Special precautions for user	Not available.
<b>Other information</b>	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

#### IMDG

14.1. UN number	UN1950
14.2. UN proper shipping name	AEROSOLS, Flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
14.4. Packing group	Not applicable.
14.5. Environmental hazards	
Marine pollutant	No
EmS	F-D, S-U
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

ADN; ADR; IATA; IMDG; RID



## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**  
Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**  
Not listed.

## Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

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

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**

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

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended**

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

## Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended**

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

Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)

**Directive 94/33/EC on the protection of young people at work, as amended**

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

## Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

## National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of abbreviations

Not available.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R12 Extremely flammable.  
R20 Also harmful by inhalation.  
R38 Irritating to skin.  
R43 May cause sensitisation by skin contact.  
R45 May cause cancer.  
R46 May cause heritable genetic damage.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R60 May impair fertility.  
R61 May cause harm to the unborn child.  
R65 Harmful: may cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H350 May cause cancer.  
H411 Toxic to aquatic life with long lasting effects.

### Revision information

Product and Company Identification: Alternate Trade Names  
SECTION 16: Other information: Disclaimer

### Training information

Follow training instructions when handling this material.

### Disclaimer

ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



# Safety Data Sheet in accordance with Regulation (EU) No. 453/2010 and OSHA 29 CFR 1910.1200 HCS

## COOL TOOL II

### 1. Identification of the Substance/ Mixture and of the Company/ Undertaking

**Product Name:** COOL TOOL II

**Preparation Date:** May 12, 2015

**Revision Date:** March 28, 2018

**Recommended Use:** Metalworking Fluid

**Supplier:** MONROE FLUID TECHNOLOGY

36 Draffin Road,  
Hilton, NY 14468

**Phone:** 800-828-6351 585-392-3434

**EMERGENCY NUMBERS:** CHEMTREC (800) 424-9300 Monroe Fluid Technology (800) 828-6351

### 2. Hazards Identification

**GHS Classification:** Not classified as hazardous

#### GHS Labeling:

Symbols: None

Signal Word: None

Precautionary Statements: None

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] and OSHA 29 CFR 1910.1200 HCS:** Not classified as hazardous

**Other Hazards Not Classified:** No significant hazards

### 3. Composition/Information on Ingredients

Mixture: Fats, oils and additives.

Chemical Name	CAS Number	Concentration, Wt. %
Fatty oils and triglycerides	8016-28-2	Trade secret

### 4. First Aid

**Inhalation:** If inhaled, move to fresh air. If victim has stopped breathing give artificial respiration, preferably, mouth to mouth. Contact a physician immediately.

**Eyes:** Flush with large amounts of cold water for at least 15 minutes. Do not let victim rub eyes. If irritation develops, contact a physician immediately.

**Ingestion:** Do not induce vomiting. Contact a physician immediately.



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## COOL TOOL II

**Skin:** Wash affected area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. Contact a physician if irritation develops

### 5. *Fire-fighting Measures*

**Suitable extinguishing media:** Use no water. Treat as an oil fire. Use carbon dioxide, foam, sand or sodium bicarbonate

**Specific hazards:** None

**Specific protective equipment and precautions for fire fighters:** Isolate fire area and deny unnecessary entry. Use dry chemical, alcohol foam or carbon dioxide. Water may be ineffective but should be used to keep fire exposed containers cool. Water spray may be used only to keep fire exposed containers cool, protect personnel attempting to stop leak and disperse vapors.

Unusual Fire and Explosion Hazards: None

### **Flammability Properties:**

Flash point: 182° C.  
Method Used: PMCC

### 6. *Accidental Release Measures*

**Personal precautions, protective equipment and emergency procedures:**  
Use personal protective equipment. Ensure adequate ventilation.

**Environmental Precautions:** Do not allow spilled material to enter sewers or streams. If material is released, indicate that there is a risk of slipping in the area. If spills are likely to enter any drain, waterway or groundwater, contact the appropriate governmental agency.

**Methods and materials for containment:** Add dry material to absorb (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

### 7. *Handling and Storage*

**Precautions for safe handling:** Prevent small spills and leakage to avoid slip hazard. Avoid contact with skin, eyes and clothing. Keep out of the reach of children.

**Conditions for safe storage:** Store in closed containers in a cool, dry well ventilated area not exposed to sunlight. Maintain closure of bungs. Do not reuse container. Avoid container damage while storing. Do not allow material to be stored below 0°C. Do not allow material to freeze.

Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, bronze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill containers since residue is difficult to remove. Empty drums should be completely drained, properly bunged and returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner in accordance with governmental regulations.

### 8. *Exposure Controls/Personal Protection*



# Safety Data Sheet in accordance with Regulation (EU) No. 453/2010 and OSHA 29 CFR 1910.1200 HCS

## COOL TOOL II

### Control parameters:

**Exposure Guidelines:** None known

**Appropriate engineering controls:** Proper protection and controls is dependent upon the potential exposure conditions. No special requirements are needed under ordinary conditions where adequate ventilation is available.

### Individual protective measures:

**Respiratory protection:** General room ventilation should be satisfactory. Exhaust ventilation may be necessary if misting is generated.

**Eye protection:** Safety glasses with shields or chemical goggles are required. Contact lenses should not be worn if the product could be splashed into the eyes.

**Hand protection:** Rubber gloves are recommended for single, short duration exposures and for prolonged or repeated exposures.

**Body protection:** For single, short duration and for prolonged or repeated exposures to the skin, wear impervious, protective clothing including rubber safety shoes to avoid skin contact.

## 9. Physical and Chemical Properties

**Appearance:** Clear amber liquid

**Odor:** Bland

**Odor Threshold:** N/A

**pH :** @ 5% in water: Not applicable

**Melting point/freezing point:** 3°C

**Initial boiling point and boiling range:** >204°C

**Flash Point (PMCC):** 182° C.

**Evaporation Rate:** N/D

**Flammability (Solid, Gas):** N/D

**Upper/lower flammability or explosive limits:** UEL: N/D LEL: N/D

**Vapor pressure:** <0.01

**Vapor density:** >1

**Relative density:** 0.91 +/-0.01

**Partition coefficient n-octanol/water:** N/A

**Autoignition Temperature:** No data available

**Decomposition Temperature:** N/A

**Viscosity:** N/D

## 10. Stability and Reactivity

**Chemical stability:** Stable at normal conditions

**Possibility of hazardous reactions:** Not expected and hazardous polymerization will not occur

**Conditions to avoid:** Excessive Heat.

**Incompatible Materials:** None known.

**Hazardous decomposition products:** Oxides of carbon and nitrogen.



# Safety Data Sheet in accordance with Regulation (EU) No. 453/2010 and OSHA 29 CFR 1910.1200 HCS

## COOL TOOL II

### *11. Toxicological Information*

**Inhalation:** Short-term inhalation of concentrated mist/vapor from product may cause dizziness, nausea and respiratory tract irritation in some individuals. Single exposure to oily mist/vapors is not expected to cause acute toxicity.

**Skin:** Prolonged or repeated contact may cause mild irritation of the skin.

**Eyes:** Contact may cause irritation

**Oral:** Small amounts ingested incidental to normal handling are not likely to cause injury; larger amounts ingested may cause injury. Ingestion may cause nausea.

**Systemic (other target organ) Effects:** None known

**Teratology (birth defects):** None known

**Reproductive Effects:** None known

**Mutagenicity (effects on genetic material):** None known

**Carcinogenicity:** IARC: NO    NTP: No    OSHA: No

### *12. Ecological Information*

**Persistence and degradability:** Data is not available.

### *13. Disposal Considerations*

**Disposal methods:** P501: Dispose of contents/ container to an approved waste disposal plant  
Dispose of in accordance with federal, state and local regulations

**Precaution for disposal:** All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with Good Engineering Practices. Comply with all applicable governmental regulations. Avoid landfilling of liquids. Reclaim where possible.

### *14. Transport Information*

**US DOT:** Not regulated by the US DOT

**RID/ADR:** Not regulated by RID/ADR

**IMO:** Not regulated by IMO

**IATA:** Not regulated by IATA

### *15. Regulatory Information*

**US TSCA:** In compliance with the inventory

**Canada DSL:** In compliance with the inventory

**Cal. Prop. 65** This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.



## **Safety Data Sheet in accordance with Regulation (EU) No. 453/2010 and OSHA 29 CFR 1910.1200 HCS**

### **COOL TOOL II**

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

**VOC Content (SCAQMD ASTM 1868-10) :** 38 g/l

#### *16. Other Information*

##### **Special Precautions to be Taken in Handling and Storage:**

Normal precautions common to good manufacturing practices should be followed in handling and storing. Store away from food. Wash hands before eating, drinking or smoking. Use as directed.

**Disclaimer:** This document has been prepared in good faith and from information provided to us by our suppliers and other sources considered to be reliable. No warranty, express or implied is given. The buyer is responsible to evaluate all available information when using this product for any particular use. The buyer is also responsible for complying with all Federal, State, Provincial, and Local Laws and regulations when using this product.



## MATERIAL SAFETY DATA SHEET (MSDS)

Product: O-Z Gedney Type **STL** Thread  
Lube

A Material Safety Data Sheet (MSDS) for an EGS Electrical Group product is attached.

This product is purchased from the manufacturer by EGS Electrical Group and is distributed with no modification other than packaging.

Please see the following pages 2 for additional information.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

### **Waterguard Technology Products**

16023 I-10 E. FRWY Ste#6

Channelview, TX 77530

(281) 862-0300

Product Trade Name: **Thread Lube**

CAS No: Not applicable for mixtures

Generic Chemical Name Petroleum lubricating grease

Product type: Thread lubricant

Preparation/Revision Date: January 1, 2011

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## SECTION 2 - COMPOSITION INFORMATION

Distillates (petroleum), hydro treated 64742-52-5 >94%

Heavy naphthenic and Residual oils (petroleum), solvent dewaxed 64742-62-7

Lithium complex soap thickener Proprietary additives <6%

All components of this product are listed on the US TSCA inventory.

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## SECTION 3 - HAZARDS IDENTIFICATION

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized. Prolonged or repeated skin contact may cause skin irritation.

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## SECTION 4 - FIRST AID MEASURES

Eye contact: Flush with enough water to wash away any irritant. If irritation persists, seek professional help.

Skin: In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry clean clothing before reuse.

Inhalation: Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem.

Ingestion: If ingested, DO NOT induce vomiting, seek professional help.

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## SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: (minimum) 221 C (430F) COC method

Autoignition Temp. >260 C (500F)

Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.

Flammable or Explosive limits (Approx. percent by volume of air):

Estimated values: Lower flammable limit 0.9% Upper flammable limit 7%

Extinguishing media and fire fighting procedures:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size and potential size of fire and circumstances related to the situation. Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapor and to provide protection for persons attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Minimize breathing of gases, vapor, fumes or decomposition products. Use supplies-air breathing equipment for enclosed or confined spaces or as otherwise needed.

Decomposition Products: Fumes, smoke, carbon monoxide, sulfur oxides, phosphorus oxides, metal oxides, aldehydes, and other decomposition products, in case of incomplete combustion.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: recover free product, Add sand, earth, or other suitable absorbent to spill area.

Minimize skin contact. Keep product out of sewers and watercourses by dikeing or impounding. Assure conformity with applicable governmental regulations.

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## SECTION 7 - HANDLING AND STORAGE

Keep containers closed when not in use. Wash with soap and water or hand cleaner after handling. Empty containers may retain material residue. Do not expose containers to heat, flame, or other sources of ignition. Do not store near potential sources of heat.

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#### SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentration on vapors in air, if necessary.  
Respiratory Protection: Use supplied-air respiratory protection in confined or enclosed spaced, if needed.  
Protective Gloves: Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.  
Eye protection: Use splash goggles or face shield when eye contact may occur.

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#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

The following data is approximate or typical values:

Boiling Range: IBP Approx. 310 C (590 F) by ASTM D 2887

Vapor Pressure: Less than 0.01 mmHG @ 20 C

Specific Gravity 0.93 Vapor Density: (air=1):>5 pH: Essentially neutral Melting Point: 260 C (500 F) by ASTM D2887

Viscosity: 325 worked penetration, mm/10, @ 25 C, ASTM D217

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#### SECTION 10 - STABILITY AND REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium, hypochlorite, etc., as this presents a serious explosion hazard.

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#### SECTION 11 - DISPOSAL CONSIDERATIONS

Dispose of in an approved landfill. Consult state, local, or provincial authorities for more restrictive requirements.

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#### SECTION 12 - TRANSPORT INFORMATION

US DOT SHIPPING DESCRIPTION: NOT REGULATED.

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#### SECTION 13 - REGULATORY INFORMATION

None Known

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The information presented here has been compiled from sources considered to be dependable and is accurate to the best of WaterGuard Technology Products knowledge; however, WaterGuard makes no warranty what so ever, expressed or implied, of Merchant ability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons WaterGuard assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risk. All chemicals may present unknown health hazards and should be use with caution. Although certain hazards are described herein, WaterGuard Technology Products cannot guarantee that these are the only hazards that exist. It is the sole responsibility of the user to comply with all applicable Federal, State, and Local laws and regulations.

## MATERIAL SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Product identifier** : **LIQUID WRENCH PENETRATING SOLVENT**

**Product Use** : Lubricant.

**Chemical Family** : Mixture.

**Manufacturer part no.** : PL111C

**Supplier's name and address:**  
**Radiator Specialty Co., of Canada**  
 1711 Aimco Blvd.  
 Mississauga, ON, Canada  
 L4W 1H7

**Manufacturer's name and address:**  
 Refer to Supplier

**Information Telephone #** : (905) 625-9117 (Monday - Friday, 8 AM - 4 PM)

**24 Hr. Emergency Tel #** : (613) 996-6666 (CANUTEC)

### SECTION 2 - HAZARDS IDENTIFICATION

**Classification** : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:  
 Class A (Pressurized containers);  
 Class B5 (Flammable Aerosols);  
 Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);  
 Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

Labelling: Phrases recommended to appear on a supplier label, can be found in Section 15.

WHMIS symbols required on a supplier label:



**Emergency Overview** : Aerosol of dark liquid. Petroleum odour.  
 DANGER! Flammable aerosol. Contents under pressure. Container may explode if heated. Harmful if inhaled. May be harmful if absorbed through the skin. May be harmful or fatal if swallowed. May cause nausea, vomiting, headache and other central nervous system effects. May cause respiratory irritation. May be an aspiration hazard. May cause skin irritation. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

Contains material that may be harmful in the environment.

### POTENTIAL HEALTH EFFECTS:

#### Signs and symptoms of short-term (acute) exposure

- Inhalation** : May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.
- Skin** : May cause moderate skin irritation. May be absorbed and cause symptoms similar to those for inhalation. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, pricking and itching.
- Eyes** : May cause mild eye irritation. Mild redness, watering, stinging. If product is sprayed directly into the eyes, could cause freezing of the eye.
- Ingestion** : May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Material is an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

#### Effects of long-term (chronic) exposure

- : Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
- Excessive overexposure could cause liver, kidney and blood system effects (anemia).

- Carcinogenic status** : See TOXICOLOGICAL INFORMATION, Section 11.
- Additional health hazards** : May cause birth defects. See TOXICOLOGICAL INFORMATION, Section 11.
- Potential environmental effects** : Contains material that may be harmful in the environment. See Section 12 for more environmental information.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>CAS #</b>	<b>Wt.%</b>
stoddard solvent	8052-41-3	40.00 - 70.00
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15.00 - 40.00
1,2,4-Trimethylbenzene	95-63-6	1.00 - 5.00
1,3,5-Trimethylbenzene	108-67-8	1.00 - 5.00
Carbon dioxide	124-38-9	1.00 - 5.00
Xylene	1330-20-7	1.00 - 5.00
Dipropylene glycol methyl ether	34590-94-8	0.10 - 1.00
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	0.10 - 1.00

### SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. Get medical attention.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Seek immediate medical attention/advice. Do not induce vomiting. Never give anything by mouth to an unconscious person.
- Notes For Physician** : Treat symptomatically. This product is a CNS depressant. Symptoms may be delayed.

### SECTION 5 - FIRE FIGHTING MEASURES

#### Fire hazards/conditions of flammability

- : Flammable aerosol. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time. Vapours may be heavier than air and may collect in confined and low-lying areas. Material will float on water and can be re-ignited at the water's surface.

**Oxidizing properties** : None known.

#### Explosion data: Sensitivity to mechanical impact / static discharge

- : May be sensitive to static discharge. Aerosols are sensitive to mechanical impact. Contents under pressure.

**Suitable extinguishing media** : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

#### Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Shield personnel to protect from venting or rupturing containers.

#### Hazardous combustion products

- : Carbon oxides; Aldehydes; Hydrocarbons; Nitrogen oxides (NO<sub>x</sub>); Sulphur oxides; Phosphorus compounds; Polycyclic aromatic hydrocarbons; Other unidentified organic compounds.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with the clean-up should wear the appropriate personal protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.
- Spill response/cleanup** : Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.
- Prohibited materials** : Do not use combustible absorbents, such as sawdust.

**SECTION 7 - HANDLING AND STORAGE**

- Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Do not puncture or incinerate containers. Avoid contact with incompatible materials. Wash thoroughly after handling. Always replace cap after use.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not eat or smoke in areas of use or storage.
- Incompatible materials** : Strong oxidizing agents.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
stoddard solvent	100 ppm	N/Av	500 ppm	N/Av
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
1,2,4-Trimethylbenzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
1,3,5-Trimethylbenzene	25 ppm (trimethylbenzene isomers)	N/Av	25 ppm (trimethylbenzene isomers) (final rule limit)	N/Av
Carbon dioxide	5000 ppm	30 000 ppm	5000 ppm	N/Av
Xylene	100 ppm	150 ppm	100 ppm	N/Av
Dipropylene glycol methyl ether	100 ppm (skin)	150 ppm (skin)	100 ppm (skin)	N/Av
Solvent-refined heavy paraffinic petroleum distillates	5 mg/m <sup>3</sup> (inhalable) (As 'Oil mist, mineral')	N/Av	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av

- Ventilation and engineering measures** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
- Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.
- Skin protection** : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers. Depending on conditions of use, an impervious apron should be worn.
- Eye / face protection** : Chemical splash goggles are recommended.
- Other protective equipment** : An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, smoke or use cosmetics while working with this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	: Liquid aerosol.	<b>Appearance</b>	: Dark liquid.
<b>Odour</b>	: Petroleum odour.	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: N/Av		
<b>Boiling point</b>	: 160°C	<b>Specific gravity</b>	: 0.85
<b>Melting/Freezing point</b>	: N/Av	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Vapour pressure (mmHg @ 20° C / 68° F)</b>	: N/Av	<b>Solubility in water</b>	: insoluble
<b>Vapour density (Air = 1)</b>	: N/Av	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Volatile organic Compounds (VOC's)</b>	: N/Av	<b>Volatiles (% by weight)</b>	: N/Av
<b>Flash point</b>	: 40.6°C (concentrate)		
<b>Flash point Method</b>	: TCC	<b>Auto-ignition temperature</b>	: N/Av
<b>Lower flammable limit (% by vol.)</b>	: 0.7	<b>Upper flammable limit (% by vol.)</b>	: 5.0
<b>Flame Projection Length</b>	: N/Av	<b>Flashback observed</b>	: N/Av
<b>Absolute pressure of container</b>	: N/Av	<b>Viscosity</b>	: N/Av
<b>General Information</b>	: No additional information.		

**Section 10: STABILITY AND REACTIVITY**

<b>Stability and reactivity</b>	: Stable under the recommended storage and handling conditions prescribed.
<b>Hazardous polymerization</b>	: Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	: Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas. Keep out of direct sunlight.
<b>Materials To Avoid And Incompatibility</b>	: Strong oxidizing agents
<b>Hazardous decomposition products</b>	: None known, refer to hazardous combustion products in Section 5.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Target organs</b>	: Eyes, skin, respiratory system, digestive system, central nervous system, blood system. Liver; Kidneys.
<b>Routes of exposure</b>	: <i>Inhalation:</i> YES <i>Skin Absorption:</i> YES <i>Skin &amp; Eyes:</i> YES <i>Ingestion:</i> YES
<b>Irritancy</b>	: Moderate skin irritant. Mild eye irritant.
<b>Toxicological data</b>	: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<b>Ingredients</b>	<b>LC<sub>50</sub>(4hr) inh, rat</b>	<b>LD<sub>50</sub></b>	
		<b>(Oral, rat)</b>	<b>(Rabbit, dermal)</b>
stoddard solvent	> 5.5 mg/L	> 5000 mg/kg	> 3000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	> 5 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg
1,2,4-Trimethylbenzene	18 mg/L	5000 mg/kg	> 3160 mg/kg
1,3,5-Trimethylbenzene	24 mg/L	23 000 mg/kg	N/Av
Carbon dioxide	N/Av	N/Av (gas)	N/Av (gas)
Xylene	6350 ppm	3523 mg/kg	12 180 mg/kg
Dipropylene glycol methyl ether	N/Av	5120 mg/kg	9480 mg/kg
Solvent-refined heavy paraffinic petroleum distillates	N/Av	> 5000 mg/kg	> 2000 mg/kg

**Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

<b>Reproductive effects</b>	: Not expected to cause reproductive effects.
<b>Teratogenicity</b>	: This product contains Xylene. Xylene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.
<b>Mutagenicity</b>	: Not expected to be mutagenic in humans.
<b>Epidemiology</b>	: None known or reported by the manufacturer.
<b>Sensitization to material</b>	: Not expected to be a skin or respiratory sensitizer.
<b>Synergistic materials</b>	: None known or reported by the manufacturer.
<b>other important hazards</b>	: CNS depression may result from extreme exposures.
<b>Conditions aggravated by overexposure</b>	: Pre-existing skin, eye and respiratory disorders.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity** : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. This product contains the following substance which may also be hazardous for the environment: stoddard solvent; 1,2,4-Trimethylbenzene; 1,3,5-Trimethylbenzene; Xylene.

See the following tables for individual ingredient ecotoxicity data.

### Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
stoddard solvent	8052-41-3	2.1 - 4.2 mg/L (Bluegill sunfish)	N/Av	None.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 5000 mg/L (Rainbow trout)	N/Av	None.
1,2,4-Trimethylbenzene	95-63-6	7.19 - 8.28 mg/L (Fathead minnow)	N/Av	None.
1,3,5-Trimethylbenzene	108-67-8	12.52 mg/L (Goldfish)	N/Av	None.
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap
Xylene	1330-20-7	8.2 mg/L (Rainbow trout)	N/Av	None.
Dipropylene glycol methyl ether	34590-94-8	> 10 000 mg/L (Fathead minnow)	N/Av	None.
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	> 5000 mg/L (Rainbow trout)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
stoddard solvent	8052-41-3	N/Av	N/Av	None.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L (Daphnia magna)	N/Av	None.
1,2,4-Trimethylbenzene	95-63-6	6.14 mg/L (Daphnia magna)	N/Av	None.
1,3,5-Trimethylbenzene	108-67-8	50 mg/L/24hr (Daphnia magna)	N/Av	None.
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap
Xylene	1330-20-7	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.
Dipropylene glycol methyl ether	34590-94-8	1919 mg/L (Daphnia magna)	N/Av	None.
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	> 1000 mg/L (Daphnia magna)	N/Av	None.



Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
stoddard solvent	8052-41-3	N/Av	N/Av	None.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L/96hr (Green algae)	N/Av	None.
1,2,4-Trimethylbenzene	95-63-6	N/Av	N/Av	None.
1,3,5-Trimethylbenzene	108-67-8	25 mg/L/48hr (Green algae)	N/Av	None.
Carbon dioxide	124-38-9	N/Av	N/Av	N/Av
Xylene	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.
Dipropylene glycol methyl ether	34590-94-8	> 969 mg/L/72hr (Green algae)	N/Av	None.
Solvent-refined heavy paraffinic petroleum distillates	64741-88-4	N/Av	N/Av	None.

**Mobility** : No data is available on the product itself.

**Persistence** : No data is available on the product itself.  
 Contains the following chemicals which are considered to be inherently biodegradable: stoddard solvent; 1,2,4-Trimethylbenzene; Xylene.  
 Contains the following chemicals which are not readily biodegradable: Distillates (petroleum), hydrotreated heavy naphthenic; 1,3,5-Trimethylbenzene; Distillates (petroleum), solvent-refined heavy paraffinic.

**Bioaccumulation potential** : No data is available on the product itself. Contains: stoddard solvent; 1,2,4-Trimethylbenzene; 1,3,5-Trimethylbenzene; Xylene.  
 The log Kow value for stoddard solvent is 3.5 - 6.4.  
 The log Pow value for 1,2,4-Trimethylbenzene is 3.63, and its Bioconcentration Factor (BCF) is 31 - 275.  
 1,3,5-Trimethylbenzene has a Bioconcentration Factor (BCF) of 23 - 328, and its log Pow value is 3.6 - 3.93.  
 The log Pow for Xylene is 3.12.

**Other Adverse Environmental effects**


: No data is available on the product itself.

### SECTION 13 - DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle waste according to recommendations in Section 7. Do not puncture or incinerate containers.

**Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.

### SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	UN1950	AEROSOLS	2.1	none	
<b>TDG Additional information</b>	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.				

### SECTION 15 - REGULATORY INFORMATION

**Labelling:**

DANGER! Flammable aerosol. Contents under pressure. Container may explode if heated. Harmful if inhaled. May be harmful if absorbed through the skin. May be harmful or fatal if swallowed. May cause nausea, vomiting, headache and other central nervous system effects. May cause respiratory irritation. May be an aspiration hazard. May cause skin irritation. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

Precautions: Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Do not puncture or incinerate containers. Avoid contact with incompatible materials. Wash thoroughly after handling. Store in a cool, dry, well-ventilated area away from sources of heat, ignition and sunlight.

FIRST AID: If inhaled, move to fresh air. If breathing stopped, begin artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention. For skin contact, wash with soap and water while removing contaminated clothing. Get medical attention. For eye contact, flush with running water for at least 15 minutes. If irritation persists, seek prompt medical attention. If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

Refer To Material Safety Data Sheet for further information.

#### **Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.**

#### **US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.


### **SECTION 16 - OTHER INFORMATION**

#### **Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CNS: Central Nervous System  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MSHA: Mine Safety and Health Administration  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RTECS: Registry of Toxic Effects of Chemical Substances  
STEL: Short Term Exposure Limit  
TCC: Tagliabue Closed Cup  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

#### **References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2013.  
2. International Agency for Research on Cancer Monographs, searched 2013.  
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2013 (Chempendium, HSDB and RTECs).  
4. Material Safety Data Sheets from manufacturer.  
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2013.

<p><b><u>Prepared for:</u></b>  Radiator Specialty Co. of Canada  1711 Aimco Blvd.  Mississauga, ON, Canada, L4W 1H7  Telephone: 905-625-9117 (Mon. - Fri., 8 AM - 4 PM)  Please direct all enquiries to Radiator Specialty.</p>	
<p><b><u>Prepared by:</u></b>  ICC The Compliance Center Inc.  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

**DISCLAIMER OF LIABILITY**

This Material Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Radiator Specialty Co. of Canada and CCOHS' Web Information Service. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Radiator Specialty Co. of Canada expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process. This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Radiator Specialty Co. of Canada.

**MSDS Preparation Date (mm/dd/yyyy)**

: 06/16/2008

**MSDS Revision Date (mm/dd/yyyy)**

: 08/09/2013

**Revision No.**

: 3

**Revision Information**

: (M)SDS sections updated:  
2. HAZARDS IDENTIFICATION (Ecological information);  
12. ECOLOGICAL INFORMATION.

**END OF DOCUMENT**

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2014

Version number 1

Revision: 25.06.2014

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

### · 1.1 Product identifier

· Trade name: **RIDGID HIGH PERFORMANCE THREAD CUTTING OIL**

· 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.

· Application of the substance / the mixture Lubricant for Industrial use

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

#### · Manufacturer/Supplier:

RIDGE TOOL EUROPE  
INTERLEUVENLAAN,  
RESEARCH PARK  
HAASRODE,  
3001 LEUVEN  
BELGIUM  
Tel.: +32 (0) 16380211  
Fax: +32 (0) 16380210

· Further information obtainable from: Customer Service +32 (0) 16380211 (Office hours)

### · 1.4 Emergency telephone number:

During normal opening times: ++49/2947/88100  
Customer Service +32 (0) 16380211 (Office hours)

## 2 Hazards identification

### · 2.1 Classification of the substance or mixture

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



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.

### · Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### · 2.2 Label elements

#### · Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

#### · Code letter and hazard designation of product:



F+ Extremely flammable

#### · Risk phrases:

12 Extremely flammable.

#### · Safety phrases:

1/2 Keep locked up and out of the reach of children.

16 Keep away from sources of ignition - No smoking.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

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**Trade name: RIDGID HIGH PERFORMANCE THREAD CUTTING OIL**

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- **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

- **Classification in accordance with Directive 75/324/EEC:** Extremely flammable

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.




- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

	Zinc dialkyldithiophosphat  Xi R38-41  N R51/53	0.1-<0.3%
CAS: 68476-86-8 EINECS: 270-705-8 Index number: 649-203-00-1	Petroleum gases, liquefied, sweetened  F+ R12 Carc. Cat. 1, Muta. Cat. 2	25-50%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

- **4.1 Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Immediately rinse with water.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** Rinse out mouth and then drink plenty of water.

- **4.2 Most important symptoms and effects, both acute and delayed** Gastric or intestinal disorders

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Foam

Sand

Carbon dioxide

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

- **5.3 Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information** Cool endangered receptacles with water spray.

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## 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

- Keep away from ignition sources.

- Ensure adequate ventilation

- Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:**

- Do not allow product to reach sewage system or any water course.

- Inform respective authorities in case of seepage into water course or sewage system.

- Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

- Ensure adequate ventilation.

- Do not flush with water or aqueous cleansing agents

- Dispose of the material collected according to regulations.

- **6.4 Reference to other sections**

- See Section 7 for information on safe handling.

- See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.

---

## 7 Handling and storage

- **7.1 Precautions for safe handling**

- Store in cool, dry place in tightly closed receptacles.

- Open and handle receptacle with care.

- **Information about fire - and explosion protection:**

- Do not spray onto a naked flame or any incandescent material.

- Keep ignition sources away - Do not smoke.

- Protect against electrostatic charges.

- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- **7.2 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 flammable substances.

- Store away from oxidizing agents.

- Store away from foodstuffs.

- **Further information about storage conditions:**

- Store under lock and key and out of the reach of children.

- Store in cool, dry conditions in well sealed receptacles.

- Keep container tightly sealed.

- Do not seal receptacle gas tight.

- Store in cool, dry conditions in well sealed receptacles.

- Protect from heat and direct sunlight.

---

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists valid during the making were used as basis.

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**Trade name: RIDGID HIGH PERFORMANCE THREAD CUTTING OIL**


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## · 8.2 Exposure controls

### · Personal protective equipment:

#### · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

#### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device in case of insufficient ventilation.

#### · Protection of hands: Recommendation: Chemical resistant protective gloves (EN 374)

#### · Material of gloves

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

#### · Penetration time of glove material

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

#### · Eye protection:



Tightly sealed goggles

Use safety glasses according to EN 166 : 2001.

## 9 Physical and chemical properties

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

#### · General Information

#### · Appearance:

Form: Aerosol

Colour: Brown

· Odour: Characteristic

· Odour threshold: Not determined.

· pH-value: Not determined.

#### · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: -44 °C

· Flash point: -60 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 287 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### · Explosion limits:

Lower: 0.9 Vol %

Upper: 9.5 Vol %

· Vapour pressure at 20 °C: 0.1 hPa

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· <b>Density at 20 °C:</b>	0.5 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
· <b>9.2 Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **10.1 Reactivity** Reacts with strong oxidants and strong reducing agents under severe heat.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Temperatures above 50 °C can result in breakage of the container
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Emergence of flammable gases / vapors on contact with strong oxidizing agent' s possible.

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

### Zinc dialkyldithiophosphat

Oral	LD50	>15000 mg/kg (rat)
Dermal	LD50	4100 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** May cause skin irritation after repeated contact.
- **on the eye:** May cause slight irritation to the eyes.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

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- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
  - **12.6 Other adverse effects** No further relevant information available.
- 

## 13 Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.
- 

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN1950
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2 5F Gases. 2.1
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> </ul>	Warning: Gases. - F-D,S-U
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	<hr style="border-top: 1px dashed black;"/>
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Transport category</b></li> </ul>	1L 2

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· Tunnel restriction code	D
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## 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**



F+ Extremely flammable

- **Risk phrases:**  
12 Extremely flammable.
  - **Safety phrases:**  
1/2 Keep locked up and out of the reach of children.  
16 Keep away from sources of ignition - No smoking.  
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
46 If swallowed, seek medical advice immediately and show this container or label.  
51 Use only in well-ventilated areas.
  - **Special labelling of certain preparations:**  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.
  - **Classification in accordance with Directive 75/324/EEC:** Extremely flammable
  - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
- 

## 16 Other information

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

- **Relevant phrases**  
R12 Extremely flammable.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Department issuing MSDS:** Customer Service +32 (0) 16380211 (Office hours)

—GB—



## SAFETY DATA SHEET

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### Section 1 – Product & Company Identification

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Product Name:  
RIDGID Dark Thread Cutting Oil (Canada)

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

Recommended Use:  
Thread Cutting

Restrictions on Use:  
Industrial use only

Company Information:

<p><u>North America</u> 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 <a href="http://www.RIDGID.com">www.RIDGID.com</a></p>
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Issue Date: May 2, 2018

Revision: I



**Product Name: RIDGID Dark Thread Cutting Oil (Canada)**

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## Section 2 – Hazards Identification

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### Hazard Classification

This product is classified as not hazardous per Canada Hazardous Product Regulations (WHMIS 2015)

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements** Not applicable

**Other hazards which do not result in GHS classification:** None.

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## Section 3 – Composition / Information On Ingredients

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### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Mineral oil	Mineral oil,	Trade Secret	30 - 60%
Paraffin oils	Paraffin oils,	Trade Secret	30 - 60%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** This product does not contain silicone or chlorinated additives.

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## Section 4 – First Aid Measures

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**Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

**Inhalation:** Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention.



**Product Name: RIDGID Dark Thread Cutting Oil (Canada)**

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**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.

**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Get medical attention if symptoms occur.

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**Section 5 – Fire Fighting Measures**

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**General Fire Hazards:** No unusual fire or explosion hazards noted.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or regular foam. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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**Section 6 – Accidental Release Measures**

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**Personal precautions, protective equipment and emergency procedures:** See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation.

**Methods and material for containment and cleaning up:** Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.



## Product Name: RIDGID Dark Thread Cutting Oil (Canada)

**Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

### Section 7 – Handling And Storage

**Precautions for safe handling:** 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 Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container.

**Conditions for safe storage, including any incompatibilities:** Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials. Shelf Life: 720 Days

### Section 8 – Exposure Controls / Personal Protection

#### Control Parameters

##### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Mineral oil - Mist.	TWA	1 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Mineral oil - Inhalable fraction.	TWA	5 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	TWA	5 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Mineral oil - Mist.	STEL	10 mg/m <sup>3</sup>	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
	TWA	5 mg/m <sup>3</sup>	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Paraffin oils - Mist.	TWA	1 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
	TWA	0.2 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Paraffin oils - Mist.	TWA	5 mg/m <sup>3</sup>	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)



**Product Name: RIDGID Dark Thread Cutting Oil (Canada)**

	STEL	10 mg/m <sup>3</sup>	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
Paraffin oils - Inhalable fraction.	TWA	5 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	TWA	5 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Paraffin oils - Inhalable fraction.	TWA	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2014)

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**

**General information:**

Use personal protective equipment as required.

**Eye/face protection:**

Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:**

No data available.

**Other:**

Wear protective clothing appropriate for the risk of exposure. Be aware of other hazards such as rotating parts. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:**

In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.

**Hygiene measures:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.



**Product Name: RIDGID Dark Thread Cutting Oil (Canada)**

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**Section 9 – Physical And Chemical Properties**

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**Appearance**

<b>Physical state:</b>	Liquid
<b>Form:</b>	No data available.
<b>Color:</b>	Black
<b>Odor:</b>	Mild petroleum/solvent
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	196.11 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	No data available.
<b>Relative density:</b>	0.878
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	42.5 mm <sup>2</sup> /s (40 °C, Measured)
<b>Other information</b>	
<b>VOC:</b>	1.99 g/l (ASTM E 1868-10)





**Product Name: RIDGID Dark Thread Cutting Oil (Canada)**

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### **Section 10 – Stability And Reactivity**

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<b>Reactivity:</b>	Not reactive during normal use.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Avoid heat or contamination.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

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### **Section 11 – Toxicological Information**

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#### **Information on likely routes of exposure**

<b>Inhalation:</b>	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
<b>Skin Contact:</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact:</b>	Eye contact is possible and should be avoided.
<b>Ingestion:</b>	May be ingested by accident. Ingestion may cause irritation and malaise.

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

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

#### **Information on toxicological effects**

##### **Acute toxicity (list all possible routes of exposure)**

<b>Oral Product:</b>	Not classified for acute toxicity based on available data.
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**Product Name: RIDGID Dark Thread Cutting Oil (Canada)**

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**Dermal**

**Product:**

Not classified for acute toxicity based on available data.

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Delayed and immediate effects, including chronic effects from short- and long-term exposure**

**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

**ACGIH Carcinogen List:**

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.

**Other effects:**

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 (Canada)

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## Section 12 – Ecological Information

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### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

Product: No data available.

##### Aquatic Invertebrates

Product: No data available.

#### Chronic hazards to the aquatic environment:

##### Fish

Product: No data available.

##### Aquatic Invertebrates

Product: No data available.

#### Toxicity to Aquatic Plants

Product: No data available.

### Persistence and Degradability

#### Biodegradation

Product: No data available.

#### BOD/COD Ratio

Product: No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

Product: No data available.

#### Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

#### Mobility in soil:

No data available.

#### Other adverse effects:

No data available.



**Product Name: RIDGID Dark Thread Cutting Oil (Canada)**

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### **Section 13 – Disposal Consideration**

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**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.

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### **Section 14 – Transportation Information**

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**TDG**  
Not regulated.

**IMDG**  
Not regulated.

**IATA**  
Not regulated.

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### **Section 15 – Regulatory Information**

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**Canada Federal Regulations**  
**List of Toxic Substances (CEPA, Schedule 1)**  
Not Regulated

**Export Control List (CEPA 1999, Schedule 3)**  
Not Regulated

**National Pollutant Release Inventory (NPRI)**  
**Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements**  
NPRI PT5 Not Regulated

**Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)**  
NPRI Not Regulated

**Greenhouse Gases**  
Not Regulated



**Product Name: RIDGID Dark Thread Cutting Oil (Canada)**

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**Section 16 – Other Information**

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Prepared by: . . . . . Ridge Tool Company (Operating Standard 6-104)

Issue Date: . . . . . May 2, 2018

Last Revision Date: . . . . . May 10, 2017

RIDGE TOOL BELIEVES THE STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE RELIABLE BUT THEY ARE GIVEN WITHOUT WARRANTY OR GUARANTEE OF ANY KIND, EXPRESSED OR IMPLIED, AND WE ASSUME NO RESPONSIBILITY FOR ANY LOSS, DAMAGE OR EXPENSE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THEIR USE.

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

#### **WD-40® MULTI-USE PRODUCT - [Aerosol]**

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

##### Relevant identified uses of the substance or mixture:

Corrosion protection  
 Lubricant

##### Uses advised against:

No information available at present.

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

WD-40 Company Limited, PO Box 440, Kiln Farm, Milton Keynes, MK11 3LF, United Kingdom  
 Phone:+44 (0) 1908 555400, Fax:+44 (0) 1908 266900  
 www.wd40.co.uk

IRL

P.R. Rielly Limited KarKraft House, Kilbarrack Industrial Estate, Kilbarrack, Dublin 5, Ireland  
 Phone:01-832 0006, Fax:01-832 0016  
 web@team.ie

M

Danka Import Export, 548 St Joseph High Road, SVR 1018 St Venera, Malta  
 Phone:+356 21233649, Fax:+356 21233501  
 Danka@maltanet.net

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

##### Emergency information services / official advisory body:

M

Medicines & Poisons Info Office - Mater Dei Hospital, Msida MSD 2090, Malta - Tel.: 2545 6504  
 Emergency Ambulance - Tel.: 112

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:  
 +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)  
 +353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

##### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WDC)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
STOT SE	3	H336-May cause drowsiness or dizziness.
Aerosol	1	H222-Extremely flammable aerosol.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
Aerosol	1	H229-Pressurised container: May burst if heated.

#### 2.2 Label elements

##### Labeling according to Regulation (EC) 1272/2008 (CLP)

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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Replacing version dated / version: 28.02.2017 / 0004

Valid from: 07.03.2017

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WD-40® MULTI-USE PRODUCT - [Aerosol]



Danger

H336-May cause drowsiness or dizziness. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area.

P301+P310+P331-IF SWALLOWED: Immediately call a POISON CENTER / doctor. Do NOT induce vomiting. P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501-Dispose of contents / container safely.

EUH066-Repeated exposure may cause skin dryness or cracking.

Without adequate ventilation, formation of explosive mixtures may be possible.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

Danger of bursting (explosion) when heated

Hydrocarbons can be harmful to water.

Product can compose a film on the water surface, which can prevent oxygen exchange.

## SECTION 3: Composition/information on ingredients

Aerosol

### 3.1 Substance

n.a.

### 3.2 Mixture

<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b>	
<b>Registration number (REACH)</b>	01-2119463258-33-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	919-857-5 (REACH-IT List-No.)
<b>CAS</b>	---
<b>content %</b>	60-80
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336

<b>Carbon dioxide</b>	<b>Substance for which an EU exposure limit value applies.</b>
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	204-696-9
<b>CAS</b>	124-38-9
<b>content %</b>	1-5
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	---

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Supply person with fresh air.

Remove person from danger area.

Respiratory arrest - Artificial respiration apparatus necessary.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Consult doctor immediately - keep Data Sheet available.

Do not induce vomiting.

Danger of aspiration

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes

Inhalation:

Headaches

Nausea

Dizziness

Irritation of the respiratory tract

Effects/damages the central nervous system

With long-term contact:

Dermatitis (skin inflammation)

Ingestion:

Nausea

Vomiting

Diarrhoea

Danger of aspiration

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

n.c.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam

CO<sub>2</sub>

Extinction powder

Water jet spray

#### Unsuitable extinguishing media

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon

Danger of bursting (explosion) when heated



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Danger of explosion by prolonged heating.  
Explosive vapour/air mixture

### **5.3 Advice for firefighters**

According to size of fire  
Protective respirator with independent air supply.  
Cool container at risk with water.  
Dispose of contaminated extinction water according to official regulations.

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

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

Remove possible causes of ignition - do not smoke.  
Ensure sufficient supply of air.  
Avoid inhalation, and contact with eyes or skin.  
Do not carry cleaning cloths soaked in product in trouser pockets.

### **6.2 Environmental precautions**

If leakage occurs, dam up.  
Resolve leaks if this possible without risk.  
Prevent from entering drainage system.  
Prevent surface and ground-water infiltration, as well as ground penetration.

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

If spray or gas escapes, ensure ample fresh air is available.  
Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

### **6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

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

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### **7.1 Precautions for safe handling**

#### **7.1.1 General recommendations**

Ensure good ventilation.  
Keep away from sources of ignition - Do not smoke.  
Do not use on hot surfaces.  
Observe directions on label and instructions for use.  
Use working methods according to operating instructions.  
Take measures against electrostatic charging, if appropriate.

#### **7.1.2 Notes on general hygiene measures at the workplace**

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.  
Not to be stored in gangways or stair wells.  
Observe special regulations for aerosols!  
Observe special storage conditions.  
Keep protected from direct sunlight and temperatures over 50°C.  
Store in a dry place.  
Store cool.  
Store in a well ventilated place.

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

No information available at present.

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

### **8.1 Control parameters**

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):  
800 mg/m<sup>3</sup>

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Chemical Name	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Content %:60-80
WEL-TWA: 800 mg/m3	WEL-STEL: ---	---
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul>	
BMGV: ---	Other information: (WEL acc. to RCP-method, EH40)	

Chemical Name	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Content %:60-80
OELV-8h: 100 ppm (573 mg/m3) (White Spirit )	OELV-15min: 125 ppm (720 mg/m3) (White Spirit )	---
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul>	
BLV: ---	Other information: ---	

Chemical Name	Carbon dioxide	Content %:1-5
WEL-TWA: 5000 ppm (9150 mg/m3) (WEL), 5000 ppm (9000 mg/m3) (EU)	WEL-STEL: 15000 ppm (27400 mg/m3) (WEL)	---
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Compur - KITA-126 B (549 475)</li> <li>- Compur - KITA-126 SA (549 467)</li> <li>- Compur - KITA-126 SB (548 816)</li> <li>- Compur - KITA-126 SF (549 491)</li> <li>- Compur - KITA-126 SG (550 210)</li> <li>- Compur - KITA-126 SH (549 509)</li> <li>- Compur - KITA-126 UH (549 517)</li> <li>- Draeger - Carbon Dioxide 100/a (81 01 811)</li> <li>- Draeger - Carbon Dioxide 0,1%/a (CH 23 501)</li> <li>- Draeger - Carbon Dioxide 0,5%/a (CH 31 401)</li> <li>- Draeger - Carbon Dioxide 1%/a (CH 25 101)</li> <li>- Draeger - Carbon Dioxide 5%/A (CH 20 301)</li> <li>- OSHA ID-172 (Carbon dioxide in workplace atmospheres) - 1990</li> <li>- NIOSH 6603 (Carbon dioxide) - 1994</li> </ul>	
BMGV: ---	Other information: ---	

Chemical Name	Carbon dioxide	Content %:1-5
OELV-8h: 5000 ppm (9000 mg/m3) (OELV-8h, EC)	OELV-15min: 15000ppm (27000 mg/m3) (OELV-15min)	---
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Compur - KITA-126 B (549 475)</li> <li>- Compur - KITA-126 SA (549 467)</li> <li>- Compur - KITA-126 SB (548 816)</li> <li>- Compur - KITA-126 SF (549 491)</li> <li>- Compur - KITA-126 SG (550 210)</li> <li>- Compur - KITA-126 SH (549 509)</li> <li>- Compur - KITA-126 UH (549 517)</li> <li>- Draeger - Carbon Dioxide 100/a (81 01 811)</li> <li>- Draeger - Carbon Dioxide 0,1%/a (CH 23 501)</li> <li>- Draeger - Carbon Dioxide 0,5%/a (CH 31 401)</li> <li>- Draeger - Carbon Dioxide 1%/a (CH 25 101)</li> <li>- Draeger - Carbon Dioxide 5%/A (CH 20 301)</li> <li>- OSHA ID-172 (Carbon dioxide in workplace atmospheres) - 1990</li> <li>- NIOSH 6603 (Carbon dioxide) - 1994</li> </ul>	
BLV: ---	Other information: IOELV	

Chemical Name	Carbon dioxide	Content %:1-5
OELV-8h: 5000 ppm (9000 mg/m3) (OELV-8h, UE)	OELV-ST: ---	---
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Compur - KITA-126 B (549 475)</li> <li>- Compur - KITA-126 SA (549 467)</li> <li>- Compur - KITA-126 SB (548 816)</li> <li>- Compur - KITA-126 SF (549 491)</li> <li>- Compur - KITA-126 SG (550 210)</li> <li>- Compur - KITA-126 SH (549 509)</li> <li>- Compur - KITA-126 UH (549 517)</li> <li>- Draeger - Carbon Dioxide 100/a (81 01 811)</li> <li>- Draeger - Carbon Dioxide 0,1%/a (CH 23 501)</li> <li>- Draeger - Carbon Dioxide 0,5%/a (CH 31 401)</li> </ul>	

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	- Draeger - Carbon Dioxide 1%/a (CH 25 101) - Draeger - Carbon Dioxide 5%/A (CH 20 301) - OSHA ID-172 (Carbon dioxide in workplace atmospheres) - 1990 - NIOSH 6603 (Carbon dioxide) - 1994
--	--

BMGV: ---	Other information: ---
-----------	------------------------

Chemical Name	Oil mist, mineral	Content %:
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)	---
Monitoring procedures:	- Draeger - Oil 10/a-P (67 28 371) - Draeger - Oil Mist 1/a (67 33 031)	

BMGV: ---	Other information: ---
-----------	------------------------

Chemical Name	Oil mist, mineral	Content %:
OELV-8h: 5 mg/m3 (Mineral oil, pure, highly & severely refined (inhalable))	OELV-15min: ---	---
Monitoring procedures:	- Draeger - Oil 10/a-P (67 28 371) - Draeger - Oil Mist 1/a (67 33 031)	

BLV: ---	Other information: ---
----------	------------------------

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. | OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. | BLV = Biological limit value | Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

OELV-8h = Occupational Exposure Limit Value - 8 h (8-hour reference period as a time-weighted average) | OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period) | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Skin = Possibility of a significant uptake through the skin.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	900	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1500	mg/m3	

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.  
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
 These are specified by e.g. EN 14042.  
 EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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## 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

$\geq 0,4$

Permeation time (penetration time) in minutes:

$\geq 480$

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Filter A P3 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Physical state:	Aerosol. Active substance: liquid.
Colour:	Light brown
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	n.a.
Melting point/freezing point:	$< -66$ °C (ASTM D 97, Liquid concentrate )
Initial boiling point and boiling range:	176 °C (Liquid concentrate )
Flash point:	47 °C (Liquid concentrate )
Flash point:	Enclosed space ignition test (UN RTDG, Manual of Tests and Criteria, Part III, 31.5): $\leq 300$ g/m <sup>3</sup> (deflagration density)
Flash point:	Enclosed space ignition test (UN RTDG, Manual of Tests and Criteria, Part III, 31.5): $\leq 300$ s/m <sup>3</sup> (time equivalent)
Flash point:	Ignition distance test (UN RTDG, Manual of Tests and Criteria, Part III, 31.4): $\geq 75$ cm
Evaporation rate:	Not determined
Flammability (solid, gas):	Yes
Lower explosive limit:	0,6 Vol-% ((Particulars of main substances contained) )
Upper explosive limit:	8,0 Vol-% ((Particulars of main substances contained) )
Vapour pressure:	7,2 bar (20°C)
Vapour pressure:	9,4 bar (50°C)

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Vapour density (air = 1):	Not determined
Density:	0,817 g/ml (Liquid concentrate )
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	<1 cSt
Explosive properties:	Not determined
Oxidising properties:	No

## 9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

Pressurized container:

protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

See also section 5.2

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

#### WD-40® MULTI-USE PRODUCT - [Aerosol]

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.

Symptoms:						n.d.a.
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#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m <sup>3</sup> /8 h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative, Analogous conclusion
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion
Specific target organ toxicity - single exposure (STOT-SE):						May cause drowsiness or dizziness.
Aspiration hazard:						Yes
Symptoms:						unconsciousness, headaches, dizziness, reddening of the skin
Symptoms:						unconsciousness, headaches, dizziness, discoloration of the skin, vomiting, diarrhoea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:					OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Not to be expected

#### Carbon dioxide

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms:						unconsciousness, blisters by skin-contact, vomiting, frostbite, annoyance, palpitations, itching, headaches, cramps, ear noises, dizziness



## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

### WD-40® MULTI-USE PRODUCT - [Aerosol]

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:		28d	>20- <60	%		OECD 310 (Ready Biodegradability - CO <sub>2</sub> in sealed vessels (Headspace Test))	Not readily but inherent biodegradable.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Other adverse effects:							n.d.a.

### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOELR	28d	0,13	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,23	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to algae:	NOELR	72h	100	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	ErC50	72h	>1000	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EbC50	72h	>1000	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	ErC50	72h	>1000	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EbC50	72h	>1000	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOELR	72h	100	mg/l	Raphidocelis subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	80	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

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Carbon dioxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	35	mg/l	Salmo gairdneri		
12.6. Other adverse effects:							Greenhouse effect
Other information:	Log Kow		0,83				
Global warming potential (GWP):			1				

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations.

15 01 04 metallic packaging

15 01 01 paper and cardboard packaging

Dispose using dual system.

## SECTION 14: Transport information

### General statements

14.1. UN number: 1950

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

Classification code: 5F

LQ: 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

EmS: F-D, S-U

Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable

#### Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.





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Comply with special provisions.

## SECTION 15: Regulatory information

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

Observe restrictions:  
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): ~ 65,5 %

Observe youth employment law (German regulation).

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

EUF0002  
 Revised sections: 2,16  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.  
 Employee training in handling dangerous goods is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
STOT SE 3, H336	Classification according to calculation procedure.
Aerosol 1, H222	Classification based on test data.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on test data.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H226 Flammable liquid and vapour.

--- ---

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aerosol — Aerosols

Asp. Tox. — Aspiration hazard

Flam. Liq. — Flammable liquid

## Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)  
BOD Biochemical oxygen demand  
BSEF Bromine Science and Environmental Forum  
bw body weight  
CAS Chemical Abstracts Service  
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques  
CIPAC Collaborative International Pesticides Analytical Council  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
COD Chemical oxygen demand  
CTFA Cosmetic, Toiletry, and Fragrance Association  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
DT50 Dwell Time - 50% reduction of start concentration  
DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EC European Community  
ECHA European Chemicals Agency  
EEA European Economic Area  
EEC European Economic Community  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
EN European Norms  
EPA United States Environmental Protection Agency (United States of America)  
ERC Environmental Release Categories  
ES Exposure scenario  
etc. et cetera  
EU European Union  
EWC European Waste Catalogue  
Fax. Fax number  
gen. general  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
GWP Global warming potential  
HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
HGWP Halocarbon Global Warming Potential  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association  
IBC Intermediate Bulk Container  
IBC (Code) International Bulk Chemical (Code)  
IC Inhibitory concentration  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
LC lethal concentration  
LC50 lethal concentration 50 percent kill  
LCLo lowest published lethal concentration  
LD Lethal Dose of a chemical  
LD50 Lethal Dose, 50% kill  
LDLo Lethal Dose Low  
LOAEL Lowest Observed Adverse Effect Level  
LOEC Lowest Observed Effect Concentration  
LOEL Lowest Observed Effect Level  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
n.a. not applicable  
n.av. not available  
n.c. not checked  
n.d.a. no data available  
NIOSH National Institute of Occupational Safety and Health (United States of America)  
NOAEC No Observed Adverse Effective Concentration  
NOAEL No Observed Adverse Effect Level  
NOEC No Observed Effect Concentration  
NOEL No Observed Effect Level

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon

PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration

POCP Photochemical ozone creation potential

ppm parts per million

PROC Process category

PTFE Polytetrafluorethylene

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90**

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# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION	
<b>NFPA Rating:</b> Health-1; Flammability-2; Reactivity-0; Special- - <b>Manufactured For:</b> LYN DISTRIBUTING <b>Address:</b> 965 NO. REDWOOD RD. NO. SALT LAKE, UTAH	<b>HMIS Rating:</b> Health-1; Flammability-2; Reactivity-0; Personal Protection-B <b>DOT Hazard Classification:</b> ORM-D <b>Identity (trade name as used on label):</b> WHITE LITHIUM GREASE
<b>Date Prepared:</b> 04/12/94 <b>Prepared By:</b> STAN	<b>MSDS Number:</b> A147 <b>Revision:</b> 4
<b>Information Calls:</b> (801) 295-5022 <b>EMERGENCY RESPONSE NUMBER:</b> 1(800)255-3924	<b>NOTICE:</b> JUDGEMENT BASED ON INDIRECT TEST DATA

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
HEXANE	110-54-3	No	500	50	d
AROMATIC PETROLEUM DISTILLATE	64742-94-5	No	100	N/E	d
ISOBUTANE	75-28-5	No	800	800	d
PROPANE	74-98-6	No	1000	1000	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
<b>Boiling Point:</b> N/A	<b>Specific Gravity (H2O=1):</b> Concentrate Only = .78
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): 46 psig	<b>Vapor Pressure (Non-Aerosols)(mm Hg and Temperature):</b> N/A
<b>Vapor Density (Air = 1):</b> 2.9	<b>Evaporation Rate ( = 1):</b> N/E
<b>Solubility in Water:</b> Nil	<b>Water Reactive:</b> No
<b>Appearance and Odor:</b> white color with solvent odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA			
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) <b>FLAMMABLE</b>	<b>Auto Ignition Temperature</b> N/E	<b>Flammability Limits in Air by % in Volume:</b> % LEL: N/E      % UEL: N/E	
<b>FLASH POINT AND METHOD USED (non-aerosols):</b> N/A		<b>EXTINGUISHER MEDIA:</b> Foam, dry chemical, carbon dioxide.	
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Use water fog to cool containers to prevent rupturing and bursting.			
<b>Unusual Fire &amp; Explosion Hazards:</b> Do not expose aerosols to temperatures above 130°F or the container may rupture. Provide shielding to protect personnel.			

SECTION 4 - REACTIVITY HAZARD DATA	
<b>STABILITY</b> <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
<b>Incompatibility (Mat. to avoid):</b> Oxygen & oxidants.	<b>Conditions to Avoid:</b> Open flame, welding arcs, heat, sparks.
<b>Hazardous Decomposition Products:</b> Carbon dioxide, carbon monoxide.	

SECTION 5 - HEALTH HAZARD DATA
<b>PRIMARY ROUTES OF ENTRY:</b> <input type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS
<b>ACUTE EFFECTS:</b>
<b>Inhalation:</b> Can cause headaches, dizziness.
<b>Eye Contact:</b> Irritation
<b>Skin Contact:</b> Can cause skin defatting.
<b>Ingestion:</b> Possible chemical pneumonitis if aspirated into lungs.
<b>CHRONIC EFFECTS:</b> None known.
<b>Medical Conditions Generally Aggravated by Exposure:</b> Asthma.

EMERGENCY FIRST AID PROCEDURES
<b>Eye Contact:</b> Flush with water for 15 minutes. If irritated, seek medical attention.
<b>Skin Contact:</b> Wash with soap and water. If irritated, seek medical attention.
<b>Inhalation:</b> Remove to fresh air. Resuscitate if necessary. Get medical attention.
<b>Ingestion:</b> DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES
<b>Respiratory Protection (specify type):</b> Not normally needed.
<b>Protective Gloves:</b> Solvent resistant.
<b>Eye Protection:</b> Safety glasses.
<b>Ventilation Requirements:</b> Normal room ventilation.
<b>Other Protective Clothing &amp; Equipment:</b> None
<b>Hygienic Work Practices:</b> Wash with soap and water after contact.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Cover with absorbent material and sweep up. Wash area to prevent slipping. Incinerate or landfill according to local, state or Federal regulations.
<b>Waste Disposal Methods:</b> Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Do not puncture or incinerate containers. Do not store at temperatures above 130°F.
<b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN.

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*  
 \*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only