

# SAFETY DATA SHEET

## 1. Identification

**Identification**

**Product name:** ROTORLUB 8000TH

**Additional identification**

**Chemical name:** Mixture

**Recommended use and restriction on use**

**Recommended use:** Not determined.

**Restrictions on use:** Not determined.

**Details of the supplier of the safety data sheet**

**Supplier**  
Gardner Denver  
1800 Gardner Expressway,  
Quincy, IL 62301  
United States of America  
Ph: 217-222-5400

**Emergency telephone number:**

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300 (LUBRIZOL)

## 2. Hazard(s) identification

**Hazard Classification****Health Hazards**

Toxic to reproduction Category 2

Specific Target Organ Toxicity -  
Repeated Exposure Category 2

**Unknown toxicity**

Acute toxicity, oral 0.0 %

Acute toxicity, dermal 0.0 %

Acute toxicity, inhalation, vapor 98.3 %

Acute toxicity, inhalation, dust  
or mist 28.0 %

**Label Elements:****Hazard Symbol:****Signal Word:**

Warning

**Hazard Statement:** Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statement:**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust or mists. Avoid release to the environment.

**Response:** If exposed or concerned: Get medical advice/attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** None identified.

**3. Composition/information on ingredients**

Chemical name	CAS number	Percent by Weight
Alkarylamine	68411-46-1	1 - 5%
Tricresyl phosphate	1330-78-5	0.5 - 1%

**4. First-aid measures**

**General information:** Get medical advice/attention if you feel unwell.

**Ingestion:** Treat symptomatically. Get medical attention. Do not induce vomiting.

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. Call a poison center or doctor if you feel unwell.

**Skin Contact:** Wash with soap and water. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

**Eye contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** See section 11.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically.

**5. Fire-fighting measures**

**General Fire Hazards:** Use water to cool containers exposed to fire.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** CO<sub>2</sub>, dry chemical, foam, water spray, water fog.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information. Burning may produce irritating, toxic and obnoxious fumes. Container may rupture on heating. Keep away from heat, sparks and open flame. Spills produce extremely slippery surfaces.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Only trained personnel should be permitted in area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate area if spilled in confined space or other poorly ventilated areas. Caution: Contaminated surfaces may be slippery.

**Methods and material for containment and cleaning up:** Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

**7. Handling and storage**

**Precautions for safe handling:** Do not breathe thermal decomposition products. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Observe good industrial hygiene practices. Provide adequate ventilation. Use personal protective equipment as required. Launder contaminated clothing before reuse. Avoid environmental contamination. Keep away from ignition sources such as heat, sparks and open flame. No smoking. Keep containers closed when not in use. Avoid eye contact. Avoid repeated or prolonged skin contact. When using do not eat, drink or smoke. Ground container and transfer equipment to eliminate static electric sparks. Do not breathe thermal decomposition products. Wash thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.

<b>Maximum Handling Temperature:</b>	Not determined.
<b>Conditions for safe storage, including any incompatibilities:</b>	Store away from incompatible materials. See section 10 for incompatible materials. Keep material from heat, light, sparks and flame. Store separately from oxidizers. Take precautions to avoid release to the environment. Store in tightly closed original container in a dry, cool and well-ventilated place. Do not store in open, unlabeled or mislabeled containers.
<b>Maximum Storage Temperature:</b>	Not determined.

## 8. Exposure controls/personal protection

### Control Parameters:

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

**Appropriate engineering controls:** Mechanical ventilation or local exhaust ventilation may be required.

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

**General information:** Use personal protective equipment as required.

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

#### Skin Protection

**Hand Protection:** Nitrile. Suitable gloves can be recommended by the glove supplier. Consult clothing/glove manufacturer to determine appropriate type of glove for given situation. Gloves should always be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

**Other:** Gloves, coveralls, apron, boots as necessary to minimize contact. Long sleeve shirt is recommended. Do not wear rings, watches or similar apparel that could entrap the material. Use good industrial hygiene practices. In case of skin contact, wash hands and arms thoroughly with soap and water to prevent a skin reaction.

**Respiratory Protection:** Use respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus (SCBA) for entry into a confined space as the natural decomposition of this material will lower the available oxygen in the air. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

**Hygiene measures:** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

## 9. Physical and chemical properties

### Appearance

**Physical state:** liquid  
**Form:** liquid

<b>Color:</b>	Colorless to yellow
<b>Odor:</b>	Mild
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	485.1 °F (251.7 °C) (Cleveland Open Cup)
<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>Relative density:</b>	0.926 60.1 °F (15.6 °C)
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble in water
<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>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Do not expose to excessive heat, ignition sources, or oxidizing materials.
<b>Incompatible Materials:</b>	Strong acids. Oxidizing agents. Strong bases. Strong mineral acids and strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

**Information on toxicological effects**

**Acute toxicity**

**Oral**

Product: Not classified for acute toxicity based on available data.

**Dermal**

Product: Not classified for acute toxicity based on available data.

**Inhalation**

Product: Not classified for acute toxicity based on available data.

**Skin Corrosion/Irritation:**

Product: Prolonged or repeated contact may cause irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.  
Remarks: Not classified as a primary skin irritant.

**Serious Eye Damage/Eye Irritation:**

Product: Remarks: Not classified as a primary eye irritant.

**Respiratory sensitization:**

No data available

**Skin sensitization:**

Alkarylamine Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.

**Specific Target Organ Toxicity - Single Exposure:**

Alkarylamine If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

Tricresyl phosphate If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**Aspiration Hazard:**

No data available

**Chronic Effects**

**Carcinogenicity:**

No data available

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

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

No carcinogenic components identified

**Germ Cell Mutagenicity:**

Alkarylamine

The Ames Salmonella test for mutagenicity was negative for this product.

**Reproductive toxicity:**

Tricresyl phosphate

Suspected of damaging fertility.

This material has been shown to impair fertility and cause adverse reproductive effects in rats and mice.

**Specific Target Organ Toxicity - Repeated Exposure:**

Alkarylamine

Repeated overexposure may result in liver and kidney damage.  
Oral: Target Organ(s): Liver, Kidney

Tricresyl phosphate

Repeated occupational exposure to tricresyl phosphate over a prolonged period of time may cause delayed neurotoxicity characterized by ataxia and tremors.

**12. Ecological information****Ecotoxicity****Fish**

Alkarylamine

LC 50 (Zebra Fish, 4 d): &gt; 100 mg/l

Tricresyl phosphate

LC 50 (Rainbow Trout, 4 Days): 0.6 mg/l  
NOEC (Rainbow Trout, 4 Days): 0.56 mg/l**Aquatic Invertebrates**

Alkarylamine

EC 50 (Water flea (Daphnia magna), 2 d): 51 mg/l

Tricresyl phosphate

EC 50 (Water flea (Daphnia magna), 2 d): 0.146 mg/l

**Toxicity to Aquatic Plants**

Alkarylamine

EC 50 (Green algae (Scenedesmus quadricauda), 3 d): &gt; 100 mg/l

Tricresyl phosphate

EC 50 (Alga, 3 Days): 0.4042 mg/l

**Toxicity to soil dwelling organisms**

No data available

**Sediment Toxicity**

No data available

**Toxicity to Terrestrial Plants**

No data available

**Toxicity to Above-Ground Organisms**

No data available

**Toxicity to microorganisms**

Alkarylamine

EC 50 (Sludge, 0.1 d): &gt; 100 mg/l

Tricresyl phosphate

LC 50 (Sludge, 0.1 Days): &gt; 1,000 mg/l

**Persistence and Degradability  
Biodegradation**

Alkarylamine OECD TG 301 B, 1 %, 28 d, Not readily degradable.

Tricresyl phosphate OECD TG 301 D, 24.2 %, 28 d, Not readily degradable.

**Bioaccumulative Potential  
Bioconcentration Factor (BCF)**

No data available

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

Tricresyl phosphate Log Kow: 5.93 (Measured)

**Mobility:**

No data available

**Other Adverse Effects:**

No data available.

### 13. Disposal considerations

**Disposal instructions:** Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

**Contaminated Packaging:** Container packaging may exhibit hazards.

### 14. Transport information

**DOT**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

### 15. Regulatory information

**US Federal Regulations**

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

None present or none present in regulated quantities.

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

**Hazard categories**

Chronic  
(Delayed)



**SARA 302 Extremely Hazardous Substance**  
**SARA 304 Emergency Release Notification**  
**SARA 311/312 Hazardous Chemical**  
**SARA 313 (TRI Reporting)**

This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA). For additional information please contact Lubrizol Customer Assistance: America(s): AmerLZAMCustomerAssistance@Lubrizol.com ; Europe: EMEAICustomerAssistance@Lubrizol.com ; Asia: APCustomerAssistance@Lubrizol.com

**US State Regulations**

**US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethyl acrylate <0.1%

**Inventory Status**

**Australia (AICS)**

All components are in compliance with chemical notification requirements in Australia.

**Canada (DSL/NDL)**

All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

**China (IECSC)**

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

**European Union (REACH)**

To obtain information on the REACH compliance status of this product, please visit [Lubrizol.com/REACH](http://Lubrizol.com/REACH), or e-mail us at [REACH\\_MSDS\\_INQUIRIES@Lubrizol.com](mailto:REACH_MSDS_INQUIRIES@Lubrizol.com)

**Japan (ENCS)**

All components are in compliance with the Chemical Substances Control Law of Japan.

**Korea (ECL)**

All components are in compliance in Korea.

**New Zealand (NZIoC)**

All components are in compliance with chemical notification requirements in New Zealand.

**Philippines (PICCS)**

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

**Switzerland (SWISS)**

All components are in compliance with the Environmentally Hazardous Substance Ordinance in Switzerland. Lubrizol must maintain records of all imports of this product into Switzerland. Third party importers are asked to report every import to The Lubrizol PSCD Manager (Europe), Hazelwood, Derby DE56 1QN, UK.

**Taiwan (TCSCA)**

All components of this product are listed on the Taiwan inventory.

**United States (TSCA)**

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

*The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.*

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

**HMIS Hazard ID**

<b>Health</b>	*	0
<b>Flammability</b>		1
<b>Physical Hazards</b>		0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 03/09/2015  
**Version #:** 1.1  
**Source of information:** Internal company data and other publically available resources.  
**Further Information:** Contact supplier (see Section 1)  
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