# SAFETY DATA SHEET

## Power Transmission EP Gear Lube Oil ISO-320


## 1. Identification

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>Product name</th>
<th>Power Transmission EP Gear Lube Oil ISO-320</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Product number</td>
<td>PTN</td>
</tr>
</tbody>
</table>

### Recommended use of the chemical and restrictions on use

<table>
<thead>
<tr>
<th>Application</th>
<th>Wind Turbine Gearbox Lubricant. Not to be misted.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses advised against</td>
<td>No specific uses advised against are identified.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Supplier</th>
<th>AMSOIL INC.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>One AMSOIL Center, Superior, WI 54880, USA.</td>
</tr>
<tr>
<td></td>
<td>T: +1 715-392-7101</td>
</tr>
</tbody>
</table>

### Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency telephone</th>
<th>CHEMTREC: Within USA and Canada: 1-800-424-9300</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Outside the USA and Canada: +1 703-741-5970</td>
</tr>
<tr>
<td></td>
<td>(collect calls accepted) 24/7</td>
</tr>
</tbody>
</table>

## 2. Hazard(s) identification

### Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Not Classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>Skin Sens. 1 - H317</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Aquatic Acute 3 - H402 Aquatic Chronic 3 - H412</td>
</tr>
</tbody>
</table>

### Label elements

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Warning</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>H317 May cause an allergic skin reaction.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H412 Harmful to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Precautionary statements</th>
<th>P261 Avoid breathing vapor/ spray.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P272 Contaminated work clothing must not be allowed out of the workplace.</td>
</tr>
<tr>
<td></td>
<td>P273 Avoid release to the environment.</td>
</tr>
<tr>
<td></td>
<td>P280 Wear protective gloves, eye and face protection.</td>
</tr>
<tr>
<td></td>
<td>P302+P352 If on skin: Wash with plenty of water.</td>
</tr>
<tr>
<td></td>
<td>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</td>
</tr>
<tr>
<td></td>
<td>P362+P364 Take off contaminated clothing and wash it before reuse.</td>
</tr>
<tr>
<td></td>
<td>P501 Dispose of contents/ container in accordance with national regulations.</td>
</tr>
</tbody>
</table>
## Power Transmission EP Gear Lube Oil ISO-320

**Contains**
Amines, C12-14-tert-alkyl

**Other hazards**
This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th><strong>Mixtures</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amines, C12-14-tert-alkyl</strong></td>
</tr>
<tr>
<td>0.025 - &lt;0.25%</td>
</tr>
<tr>
<td>CAS number: 68955-53-3</td>
</tr>
<tr>
<td>M factor (Acute) = 1</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
</tr>
<tr>
<td>Acute Tox. 4 - H302</td>
</tr>
<tr>
<td>Acute Tox. 3 - H311</td>
</tr>
<tr>
<td>Acute Tox. 2 - H330</td>
</tr>
<tr>
<td>Skin Corr. 1B - H314</td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
</tr>
<tr>
<td>Skin Sens. 1A - H317</td>
</tr>
<tr>
<td>Aquatic Acute 1 - H400</td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
</tr>
</tbody>
</table>

| **(Z)-Octadec-9-enylamine** |
| 0.025 - <0.25% |
| CAS number: 112-90-3 |
| M factor (Acute) = 10 | M factor (Chronic) = 10 |
| **Classification** |
| Acute Tox. 4 - H302 |
| Skin Corr. 1B - H314 |
| Eye Dam. 1 - H318 |
| STOT SE 3 - H335 |
| STOT RE 2 - H373 |
| Asp. Tox. 1 - H304 |
| Aquatic Acute 1 - H400 |
| Aquatic Chronic 1 - H410 |

| **Ethyl acrylate** |
| <0.025% |
| CAS number: 140-88-5 |
| **Classification** |
| Flam. Liq. 2 - H225 |
| Acute Tox. 4 - H302 |
| Acute Tox. 4 - H312 |
| Acute Tox. 3 - H331 |
| Skin Irrit. 2 - H315 |
| Eye Irrit. 2A - H319 |
| Skin Sens. 1 - H317 |
| STOT SE 3 - H335 |
| Aquatic Chronic 3 - H412 |
4. First-aid measures

Description of first aid measures

**General information**
Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

**Inhalation**
Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**
Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

**Skin Contact**
It is important to remove the substance from the skin immediately. In the event of any sensitization symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognized skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders**
First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

**General information**
See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**
Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion**
May cause sensitization or allergic reactions in sensitive individuals. Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

**Skin contact**
May cause skin sensitization or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

**Eye contact**
May cause temporary eye irritation.

Indication of immediate medical attention and special treatment needed

**Notes for the doctor**
Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.

5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**
The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

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

Special hazards arising from the substance or mixture
Power Transmission EP Gear Lube Oil ISO-320

Specific hazards
Containers can burst violently or explode when heated, due to excessive pressure build-up. Contains Hydrocarbons. The product is immiscible with water and will spread on the water surface.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO).

Advice for firefighters
Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes. Use protective equipment appropriate for surrounding materials.

Environmental precautions
Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling
Power Transmission EP Gear Lube Oil ISO-320

Usage precautions
Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. The product contains a sensitizing substance. Persons susceptible to allergic reactions should not handle this product. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Avoid contact with used product. Do not reuse container.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

Conditions for safe storage, including any incompatibilities
Storage precautions
Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

Storage class
Miscellaneous hazardous material storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters
Occupational exposure limits
Ethyl acrylate
Long-term exposure limit (8-hour TWA):  ACGIH 5 ppm  20 mg/m³
Short-term exposure limit (15-minute):  ACGIH 15 ppm  61 mg/m³
A4
Long-term exposure limit (8-hour TWA):  OSHA 25 ppm  100 mg/m³
Sk
ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.
OSHA = Occupational Safety and Health Administration.
Sk = Danger of cutaneous absorption.

Ethyl acrylate (CAS: 140-88-5)

Immediate danger to life and health
300 ppm

Exposure controls
Appropriate engineering controls
Provide adequate ventilation. Personal, workplace environment 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. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.
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**Eye/face protection**
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

**Hand protection**
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

**Other skin and body protection**
Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

**Hygiene measures**
Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

**Respiratory protection**
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

**Environmental exposure controls**
Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Yellow</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Mild hydrocarbon</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Initial boiling point and range</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>245°C COC (Cleveland open cup) [ASTM D 92]</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>
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Vapor density Not available.
Relative density 0.8618 g/ml
Bulk density 7.176 lb/Ga
Solubility(ies) Not known.
Partition coefficient Not available.
Auto-ignition temperature Not available.
Decomposition Temperature Not available.
Viscosity 34.77 cSt @ 100°C [ASTM D 445] 326.68 cSt @ 40°C [ASTM D 445]
Explosive properties Not considered to be explosive.
Oxidizing properties Does not meet the criteria for classification as oxidizing.
Fire point 276°C [ASTM D92], COC (Cleveland open cup).
Pour point -38°C [ASTM D97]

10. Stability and reactivity

Reactivity See the other subsections of this section for further details.
Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions No potentially hazardous reactions known.
Conditions to avoid Avoid excessive heat for prolonged periods of time. Containers can burst violently or explode when heated, due to excessive pressure build-up.
Materials to avoid Oxidizing agents. Acids - oxidizing.
Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. Carbon dioxide (CO2). Carbon monoxide (CO).

11. Toxicological Information

Information on toxicological effects
Acute toxicity - oral
Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal
Notes (dermal LD₅₀) Based on available data the classification criteria are not met.
ATE dermal (mg/kg) 193,299.96

Acute toxicity - inhalation
Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l) 385.06

Skin corrosion/irritation
Animal data Based on available data the classification criteria are not met.
# Power Transmission EP Gear Lube Oil ISO-320

<table>
<thead>
<tr>
<th>Serious eye damage/irritation</th>
<th>Based on available data the classification criteria are not met.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory sensitization</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>May cause skin sensitization or allergic reactions in sensitive individuals.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>IARC carcinogenicity</td>
<td>Contains a substance which may be potentially carcinogenic. IARC Group 2B Possibly carcinogenic to humans.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Reproductive toxicity - fertility</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Reproductive toxicity - development</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>Not classified as a specific target organ toxicant after a single exposure.</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>Not classified as a specific target organ toxicant after repeated exposure.</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>Not classified as a specific target organ toxicant after repeated exposure.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>General information</td>
<td>The severity of the symptoms described will vary dependent on the concentration and the length of exposure.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Prolonged inhalation of high concentrations may damage respiratory system.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May cause sensitization or allergic reactions in sensitive individuals. Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>May cause skin sensitization or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>May cause temporary eye irritation.</td>
</tr>
<tr>
<td>Route of entry</td>
<td>Ingestion Inhalation Skin and/or eye contact</td>
</tr>
<tr>
<td>Target Organs</td>
<td>No specific target organs known.</td>
</tr>
<tr>
<td>Medical considerations</td>
<td>Skin disorders and allergies.</td>
</tr>
</tbody>
</table>

## Toxicological information on ingredients.

**Amines, C12-14-tert-alkyl**

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>Acute toxicity oral (LD₅₀ mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>612.0</td>
</tr>
</tbody>
</table>
Power Transmission EP Gear Lube Oil ISO-320

Species  
Rat

Notes (oral LD₅₀)  
REACH dossier information. Harmful if swallowed.

ATE oral (mg/kg)  
612.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)  
251.0

Species  
Rat

Notes (dermal LD₅₀)  
REACH dossier information. Toxic in contact with skin.

ATE dermal (mg/kg)  
251.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀)  
Fatal if inhaled.

ATE inhalation (vapours mg/l)  
0.5

Skin corrosion/irritation

Corrosive to skin.

Animal data  
Dose: 0.5ml, 4 hours, Rabbit Primary dermal irritation index: 7.3 REACH dossier information.

Serious eye damage/irritation

Dose: 0.1ml, 30 seconds, Rabbit REACH dossier information. Causes serious eye damage.

Skin sensitization

Buehler test - Guinea pig: Sensitizing. REACH dossier information. May cause an allergic skin reaction.

Germ cell mutagenicity

Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vitro

Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

- NOAEL: 5 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

12. Ecological Information

Toxicity  
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

Amines, C12-14-tert-alkyl

Acute aquatic toxicity

LE(C)₅₀  
0.1 < L(E)C50 ≤ 1

M factor (Acute)  
1
Power Transmission EP Gear Lube Oil ISO-320

Acute toxicity - fish  
LC₅₀, 96 hours: 1.3 mg/l, Onchorhynchus mykiss (Rainbow trout)  
REACH dossier information.

Acute toxicity - aquatic invertebrates  
EC₅₀, 48 hours: 2.5 mg/l, Daphnia magna  
REACH dossier information.

Acute toxicity - aquatic plants  
EC₅₀, 72 hours: 0.44 mg/l, Selenastrum capricornutum  
REACH dossier information.

Chronic aquatic toxicity  
NOEC  
0.01 < NOEC ≤ 0.1  
Degradability  
Non-rapidly degradable  
M factor (Chronic)  
1  
Chronic toxicity - fish early life stage  
NOEC, 96 days: 0.078 mg/l, Onchorhynchus mykiss (Rainbow trout)  
REACH dossier information.

Persistence and degradability  
The degradability of the product is not known.

Ecological information on ingredients.

Amines, C12-14-tert-alkyl

Stability (hydrolysis)  
pH7, pH4, pH9 - Half-life : > 1 year @ 25°C  
REACH dossier information.

Biodegradation  
Water - Degradation 22%: 28 days  
REACH dossier information.

Bioaccumulative potential  
Bio-Accumulative Potential  
No data available on bioaccumulation.

Partition coefficient  
Not available.

Ecological information on ingredients.

Amines, C12-14-tert-alkyl

Partition coefficient  
log Pow: 2.9 REACH dossier information.

Mobility in soil  
Mobility  
The product is immiscible with water and will spread on the water surface.

Ecological information on ingredients.

Amines, C12-14-tert-alkyl

Mobility  
Slightly soluble in water.

Adsorption/desorption coefficient  
Soil - Log Koc: 4.01 @ 20°C REACH dossier information.

Surface tension  
47.4 mN/m @ 22°C REACH dossier information.

Other adverse effects  
None known.
13. Disposal considerations

Waste treatment methods

General information
The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers orliners may retain some product residues and hence be potentially hazardous.

Disposal methods
Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number
Not applicable.

UN proper shipping name
Not applicable.

Transport hazard class(es)
No transport warning sign required.

Packing group
Not applicable.

Environmental hazards
Environmentally Hazardous Substance
No.

Special precautions for user
Not applicable.

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

15. Regulatory information

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The following ingredients are listed or exempt:
Power Transmission EP Gear Lube Oil ISO-320

Ethyl acrylate
Final CERCLA RQ: 1000(454) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
The following ingredients are listed or exempt:
Ethyl acrylate
0.1 %

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
The following ingredients are listed or exempt:
Ethyl acrylate
Known to the State of California to cause cancer.

California Air Toxics "Hot Spots" (A-I)
The following ingredients are listed or exempt:
Ethyl acrylate

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
The following ingredients are listed or exempt:
Ethyl acrylate

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:
Ethyl acrylate
2-ethylhexyl acrylate

Rhode Island "Right To Know" List
The following ingredients are listed or exempt:
Ethyl acrylate
2-ethylhexyl acrylate

Minnesota "Right To Know" List
The following ingredients are listed or exempt:
Ethyl acrylate

New Jersey "Right To Know" List
The following ingredients are listed or exempt:
Power Transmission EP Gear Lube Oil ISO-320

*Ethyl acrylate*

*2-ethylhexyl acrylate*

*Bis(2-ethylhexyl) hydrogen phosphate*

**Pennsylvania "Right To Know" List**
The following ingredients are listed or exempt:

*Ethyl acrylate*

*2-ethylhexyl acrylate*

**Inventories**

**US - TSCA**
All the ingredients are listed or exempt.

**US - TSCA 12(b) Export Notification**
None of the ingredients are listed or exempt.

### 16. Other information

| **Classification abbreviations and acronyms** | Skin Sens. = Skin sensitisation  
Aquatic Chronic = Hazardous to the aquatic environment (chronic) |
| **Training advice** | Read and follow manufacturer's recommendations. Only trained personnel should use this material. |
| **Revision date** | 2/20/2017 |
| **Revision** | 0 |
| **SDS No.** | 5038 |

**Hazard statements in full**

- **H225** Highly flammable liquid and vapor.
- **H302** Harmful if swallowed.
- **H304** May be fatal if swallowed and enters airways.
- **H311** Toxic in contact with skin.
- **H312** Harmful in contact with skin.
- **H314** Causes severe skin burns and eye damage.
- **H315** Causes skin irritation.
- **H317** May cause an allergic skin reaction.
- **H318** Causes serious eye damage.
- **H319** Causes serious eye irritation.
- **H330** Fatal if inhaled.
- **H331** Toxic if inhaled.
- **H35** May cause respiratory irritation.
- **H373** May cause damage to organs (Gastro-intestinal tract, liver, immune system) through prolonged or repeated exposure.
- **H400** Very toxic to aquatic life.
- **H402** Harmful to aquatic life.
- **H410** Very toxic to aquatic life with long lasting effects.
- **H412** Harmful to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.