



Product name: Geartex EP-C 85W-140  
Print date: 06.5.2010 Revision date: 04.05.2007

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## 1. Identification of the substance

### 1.1 Product details

**Trade name:** Geartex EP-C 85W-140 (Order No. 95002483)  
Gear Lubricant

**1.2 Application of the substance/the preparation:** Gear lubricant

### 1.3 Name and address of company:

ATM GmbH  
Emil-Reinert-Str. 2  
D-57636 Mammelzen  
Telefon: +49 (0)2681-95390  
Mail: [info@atm-m.com](mailto:info@atm-m.com) [www.atm-m.com](http://www.atm-m.com)

## 2. Composition/Information on ingredients

| COMPONENTS                             | EC NUMBER    | SYMBOL / RISK PHRASES | AMOUNT                 |
|--|--------------|-----------------------|------------------------|
| Highly refined mineral oil (C15 - C50) | *            | None                  | 80.00 - 95.00 % weight |
| Olefin sulfide                         | Confidential | R53                   | 3.00 - 9.99 % weight   |
| Phosphoric acid ester, amine salt      | Proprietary  | N/R51/53              | 1.00 - 2.99% weight    |

\*Contains one or more of the following EINECS numbers: 265-090-8, 265-091-3, 265-096-0, 265-097-6, 265-098-1, 265-101-6, 265-155-0, 265-156-6, 265-157-1, 265-158-7, 265-159-2, 265-160-8, 265-161-3, 265-166-0, 265-169-7, 265-176-5, 276-735-8, 276-736-3, 276-737-9, 276-738-4, 278-012-2.  
The full text of all R-phrases is shown in Section 16.

## 3. Hazards identification

**3.1 Classification:** Not classified as dangerous according to EU regulatory guidelines.

### 3.2 Immediate health effects

**Eye:** Not expected to cause prolonged or significant eye irritation.  
**Skin:** Contact with the skin is not expected to be harmful.  
**Ingestion:** Not expected to be harmful if swallowed.  
**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.  
Symptoms of respiratory irritation may include coughing and difficulty breathing.

**Delayed or other health effects:** Not classified.

**Environmentally effects:** Not classified.

## 4. First aid measures

**4.1 Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.



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- 4.2 Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
- 4.3 Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.
- 4.4 Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

## 5. Fire fighting measures

### 5.1 Flammable properties:

**Flashpoint:** (Cleveland Open Cup) 214 °C (417 °F) (Typical)

**Autoignition:** No Data Available

**Flammability (Explosive) Limits (% by volume in air):** Lower: No data available  
Upper: No data available

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

### 5.2 Protection of fire fighters:

**Fire Fighting Instructions:** This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

### 5.3 Combustion Products:

Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Phosphorus, Sulfur.

## 6. Accidental release measures

### 6.1 Protective measures:

Eliminate all sources of ignition in vicinity of spilled material.

### 6.2 Spill management:

Stop the source of the release if you can do it without risk.

Contain release to prevent further contamination of soil, surface water or groundwater.

Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil.

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

### 6.3 Reporting:

Report spills to local authorities as appropriate or required.

## 7. Handling and storage

### 7.1 Specific use: Gear Lubricant

### 7.2 General handling information:

Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.



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### 7.3 Static hazard:

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

### 7.4 Container warnings:

Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, 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. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

## 8. Exposure controls and personal protection

### 8.1 General considerations:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

### 8.2 Engineering controls:

Use in a well-ventilated area.

### 8.3 Personal protective equipment:

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Neoprene, Nitrile Rubber.

**Respiratory Protection:** No respiratory protection is normally required. No respiratory protection is ordinarily required under normal conditions of use.. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material.  
 For air-purifying respirators use a particulate cartridge.

### 8.4 Occupational Exposure Limits:

| Component                              | Country/ Agency | TWA                 | STEL                 | Ceiling | Notation |
|--|-----------------|---------------------|----------------------|---------|----------|
| Highly refined mineral oil (C15 - C50) | United Kingdom  | 5 mg/m <sup>3</sup> | 10 mg/m <sup>3</sup> | --      | --       |



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## 9. Physical and chemical properties

### 9.1 General information

**Attention: the data below are typical values and do not constitute a specification.**

**Color:** Light to Brown  
**Physical State:** Liquid  
**Odor:** Petroleum odor

|                                 |  |
|---------------------------------|--|
| <b>pH:</b>                      | Not applicable   |
| <b>Vapor Pressure:</b>          | No data available  |
| <b>Vapor Density (Air = 1):</b> | No data available  |
| <b>Boiling Point:</b>           | No data available  |
| <b>Solubility:</b>              | Insoluble in water.                                      |
| <b>Freezing Point:</b>          | No data available  |
| <b>Density:</b>                 | 0.907 - 0.917 kg/l (Typical)                             |
| <b>Viscosity:</b>               | 340 - 360 mm <sup>2</sup> /s @ 40°C (104°F) (Typical)    |
| <b>Viscosity:</b>               | 24.5 , 27.5 mm <sup>2</sup> /s @ 100°C (212°F) (Typical) |

## 10. Stability and reactivity

- 10.1 Chemical stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- 10.1 Incompatibility with other materials:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
- 10.2 Hazardous decomposition products:** Alkyl Mercaptans (Elevated temperatures), Hydrogen Sulfide (Elevated temperatures)
- 10.3 Hazardous polymerization:** Hazardous polymerization will not occur.

## 11. Toxicological information

### 11.1 Immediate health effects

- Eye Irritation:** The eye irritation hazard is based on evaluation of data for similar materials or product components.
- Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.
- Skin Sensitization:** The skin sensitization hazard is based on evaluation of data for similar materials or product components.
- Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.
- Acute Oral Toxicity:** The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.
- Acute Inhalation Toxicity:** The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.



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### 11.2 Additional toxicological information:

In accordance with the Directive 94/69/EC (21st ATP to DSD), Nota L, reference IP 346/92: "DMSO Extraction Method", we have determined that the base oils used in this preparation are not carcinogenic.

## 12. Ecological information

### 12.1 Ecotoxicity

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

### 12.2 Mobility

No data available.

### 12.3 Persistence and degradability

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

### 12.4 Potential to bioaccumulate

Bioconcentration Factor: No data available.  
 Octanol/Water Partition Coefficient: No data available

## 13. Disposal considerations

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

In accordance with European Waste Catalogue (E.W.C.) the codification is the following: 13 02 05

## 14. Transport information

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

|  |  |
|--|--|
| <b>ADR/RID Shipping Description:</b>   | Not regulated as dangerous goods for transport                     |
| <b>ICAO/IATA Shipping Description:</b> | Not regulated as dangerous goods for transport under ICAO          |
| <b>IMO/IMDG Shipping Description:</b>  | Not regulated as dangerous goods for transport under the IMDG code |

## 15. Regulatory information

### 15.1 Regulatory lists searched:

01=EU. Directive 76/769/EEC: Restrictions on the marketing and use of certain dangerous substances.  
 02=EU Directive 90/394/EEC: Carcinogens at work.  
 03=EU Directive 92/85/EEC: Pregnant or breastfeeding workers.  
 04=EU Directive 96/82/EC (Seveso II): Article 9.  
 05=EU Directive 96/82/EC (Seveso II): Articles 6 and 7.  
 06=EU Directive 98/24/EC: Chemical agents at work.

No components of this material were found on the regulatory lists above.



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**15.2 Chemical inventories:**

All components comply with the following chemical inventory requirements:  
AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

**15.3 Classification - labeling:**

Under the criteria of the directive EEC/67/548 (dangerous substances) and EEC/1999/45 (dangerous preparations): Not classified.  
Contains: Long chain alkenylamine. May produce an allergic reaction.  
Substituted thiadiazole. May produce an allergic reaction.

**16. Other information****16.1 Full text of R-phrases:**

**R51/53;** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**R53;** May cause long-term adverse effects in the aquatic environment.

**16.2 Abbreviations that may have been used in this document:**

|  |   |
|--|---|
| <b>TLV</b> - Threshold Limit Value       | <b>TWA</b> - Time Weighted Average            |
| <b>STEL</b> - Short- term Exposure Limit | <b>PEL</b> - Permissible Exposure Limit       |
| <b>CVX</b> - Chevron                     | <b>CAS</b> - Chemical Abstract Service Number |

Prepared according to the criteria of the directive 2001/58/EC by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94802.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.