

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product name:** GLEITMO 850 ST

**Other means of identification:** For further information, please refer to section 9 of the SDS.

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

**Identified uses:** Lubricating grease

**Uses advised against:** No uses advised against identified.

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

**Manufacturer / Supplier**

FUCHS LUBRICANTS GERMANY GmbH  
Friesenheimer Str. 19  
68169 Mannheim  
Telephone: +49 621 3701-0 (ZENTRALE)  
Fax: +49 621 3701-570

US Distributor  
Fuchs Lubricants Co.  
17050 Lathrop Avenue  
Harvey, IL 60426  
(708) 333-8900  
(800) 255-3924 24 hrs  
Emergency

**Contact for request of safety data sheets**

E-mail: Automotive lubricants CS.Services-FLG@fuchs.com  
Industrial lubricants  
Telephone: +49 621 3701-0 (ZENTRALE)

**Informing department for safety data sheets**

E-mail: produktsicherheit-FLG@fuchs.com

**1.4 US contact telephone :** 708-333-8900  
**Emergency telephone:** 800-255-3924

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**||** The product has been classified and labelled as hazardous according to the legislation in force.

**Environmental Hazards**

Chronic hazards to the aquatic environment Category 3

**Hazard summary**

**Physical Hazards:** No data available.

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**Product name:** GLEITMO 850 ST
 

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**2.2 Label Elements**

**Hazard Statement(s):** H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention:** P273: Avoid release to the environment.

**Disposal:** P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

**2.3 Other hazards:** By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

**Unknown toxicity:** Due to information available product does not contain any ingredients of unknown toxicity.

|                                                   |
|---------------------------------------------------|
| <b>3 COMPOSITION / INFORMATION ON INGREDIENTS</b> |
|---------------------------------------------------|

**3.2 Mixtures**

**General information:** Lubricating grease: Thickener system and additives in solvent refined mineral oil and synthetic base oil.

| Chemical name                           | Identifier   | Concentration * | Notes |
|-----------------------------------------|--------------|-----------------|-------|
| Polyurea thickener                      | 58890-25-8   | 1.00 - <5.00%   |       |
| Polyurea thickener                      | 122886-55-9  | 1.00 - <5.00%   |       |
| Molybdenum thiocarbamate                | 68412-26-0   | 1.00 - <5.00%   |       |
| zinc compound                           | Confidential | 1.00 - <5.00%   |       |
| amine salts of alkyl phosphate esters   | Confidential | 0.10 - <1.00%   |       |
| cycl. phosphine derivative, antioxidant | 26741-53-7   | 0.25 - <1.00%   |       |

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

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

| Chemical name                           | Identifier   | Classification                                        |
|-----------------------------------------|--------------|-------------------------------------------------------|
| Polyurea thickener                      | 58890-25-8   | Aquatic Chronic 4;H413                                |
| Polyurea thickener                      | 122886-55-9  | Aquatic Chronic 4;H413                                |
| Molybdenum thiocarbamate                | 68412-26-0   | Aquatic Chronic 4;H413                                |
| zinc compound                           | Confidential | Aquatic Chronic 3;H412                                |
| amine salts of alkyl phosphate esters   | Confidential | Skin Irrit. 2;H315, Aquatic Acute 1;H400              |
| cycl. phosphine derivative, antioxidant | 26741-53-7   | Aquatic Chronic 1;H410; M-Factor (aquatic chronic): 1 |

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For the wording of the listed hazard statements refer to section 16.

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Nota L/ Nota N of Annex VI of Regulation EC 1272/2008."

## 4 FIRST AID MEASURES

**General:** Instantly remove any clothing soiled by the product.

### 4.1 Description of first aid measures

**Inhalation:** Supply fresh air; consult doctor in case of symptoms.

**Eye contact:** Promptly wash eyes with plenty of water while lifting the eye lids.

**Skin Contact:** Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** Suspected to cause hypersensitivity and allergy.

**4.3 Indication of any immediate medical attention and special treatment needed** Get medical attention if symptoms occur. Symptoms may be delayed.

## 5 FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

**Unsuitable extinguishing media:** Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

### 5.3 Advice for firefighters

**Special fire-fighting procedures:** Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6 ACCIDENTAL RELEASE MEASURES

- |                                                                                 |                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1 Personal precautions, protective equipment and emergency procedures:</b> | In case of spills, beware of slippery floors and surfaces. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. |
| <b>6.2 Environmental Precautions:</b>                                           | Avoid release to the environment. Prevent further leakage or spillage if safe to do so.                                                                                                          |
| <b>6.3 Methods and material for containment and cleaning up:</b>                | Scrape up spillage or absorb with absorbing material. Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.                            |
| <b>6.4 Reference to other sections:</b>                                         | See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.                                           |

## 7 HANDLING AND STORAGE

- |                                                                          |                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1 Precautions for safe handling:</b>                                | Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. |
| <b>7.2 Conditions for safe storage, including any incompatibilities:</b> | Local regulations concerning handling and storage of waterpolluting products have to be followed.                                                                                                                            |
| <b>7.3 Specific end use(s):</b>                                          | Not applicable                                                                                                                                                                                                               |

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1.Exposure Limits

None of the components have assigned exposure limits.

### 8.2.Exposure controls

#### Appropriate engineering controls:

Provide adequate ventilation. 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 (PPE)

##### General information:

Wash hands before breaks and after work. 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. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyeface protection:</b>     | Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield. Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.                                                                                                                                                                                                                                     |
| <b>Skin protection</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Hand Protection:</b>        | Material: Nitrile butyl rubber (NBR).<br>Min. Breakthrough time: $\geq 480$ min<br>Recommended thickness of the material: $\geq 0.38$ mm<br><br>Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| <b>Other:</b>                  | Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Respiratory Protection:</b> | Not relevant, due to the form of the product.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Thermal hazards:</b>        | No data available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <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 to remove contaminants. Discard contaminated footwear that cannot be cleaned.                                                                                                                                                                                                                                                    |
| <b>Environmental Controls:</b> | No data available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| <b>Physical state:</b>              | solid                                       |
| <b>Form:</b>                        | Paste                                       |
| <b>Color:</b>                       | Yellow                                      |
| <b>Odor:</b>                        | Characteristic                              |
| <b>Odor Threshold:</b>              | Not applicable for mixtures                 |
| <b>pH:</b>                          | substance/mixture is non-soluble (in water) |
| <b>Drop Point:</b>                  | 260 °C (IP 396)                             |
| <b>Boiling Point:</b>               | Value not relevant for classification       |
| <b>Flash Point:</b>                 | Not applicable                              |
| <b>Evaporation Rate:</b>            | Not applicable for mixtures                 |
| <b>Flammability (solid, gas):</b>   | Value not relevant for classification       |
| <b>Explosion Limit - Upper (%):</b> | Not applicable for mixtures                 |
| <b>Explosion Limit - Lower (%):</b> | Not applicable for mixtures                 |
| <b>Vapor pressure:</b>              | Not applicable for mixtures                 |
| <b>Relative vapor density:</b>      | Not applicable for mixtures                 |
| <b>Density:</b>                     | 0.92 g/cm <sup>3</sup> (20 °C)              |
| <b>Solubility(ies)</b>              |                                             |

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**Product name:** GLEITMO 850 ST

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|                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| <b>Solubility in Water:</b>                     | Insoluble in water                    |
| <b>Solubility (other):</b>                      | No data available.                    |
| <b>Partition coefficient (n-octanol/water):</b> | Not applicable for mixtures           |
| <b>Auto-ignition temperature:</b>               | Value not relevant for classification |
| <b>Decomposition Temperature:</b>               | Value not relevant for classification |
| <b>NLGI:</b>                                    | 1                                     |
| <b>Explosive properties:</b>                    | Value not relevant for classification |
| <b>Oxidizing properties:</b>                    | Value not relevant for classification |
| <b>9.2 Other information</b>                    | No data available.                    |

## 10 STABILITY AND REACTIVITY

|                                                 |                                                                                                 |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity:</b>                         | Stable under normal use conditions.                                                             |
| <b>10.2 Chemical Stability:</b>                 | Stable under normal use conditions.                                                             |
| <b>10.3 Possibility of hazardous reactions:</b> | Stable under normal use conditions.                                                             |
| <b>10.4 Conditions to avoid:</b>                | Stable under normal use conditions.                                                             |
| <b>10.5 Incompatible Materials:</b>             | Strong oxidizing substances. Strong acids. Strong bases.                                        |
| <b>10.6 Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 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> | May cause an allergic skin reaction. |
| <b>Eye contact:</b>  | No data available.                   |

### Acute toxicity

#### Oral

|                                         |                            |
|-----------------------------------------|----------------------------|
| <b>Product:</b>                         | ATEmix: 129,290 mg/kg      |
| <b>Specified substance(s)</b>           |                            |
| Molybdenum thiocarbamate                | LD 50 (Rat): 2,585 mg/kg   |
| cycl. phosphine derivative, antioxidant | LD 50 (Rat): > 5,000 mg/kg |

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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.

**Skin Corrosion/Irritation:**

**Product:**

Based on available data, the classification criteria are not met.

**Serious Eye Damage/Eye Irritation:**

**Product:**

Based on available data, the classification criteria are not met.

**Respiratory or Skin Sensitization:**

**Product:**

Skin sensitizer: Based on available data, the classification criteria are not met.

Respiratory sensitizer: Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity**

**Product:**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:**

Based on available data, the classification criteria are not met.

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

No carcinogenic components identified

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

No carcinogenic components identified

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

No carcinogenic components identified

**Reproductive toxicity**

**Product:**

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure**

**Product:**

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:**

Based on available data, the classification criteria are not met.

**Aspiration Hazard**

**Product:**

Based on available data, the classification criteria are not met.

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| <b>12 ECOLOGICAL INFORMATION</b> |
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**Product name:** GLEITMO 850 ST

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**General information:** Not applicable**12.1 Toxicity****Acute toxicity****Product:** Based on available data, the classification criteria are not met.**Aquatic Invertebrates****Specified substance(s)**

Polyurea thickener EC 50 (Water Flea, 48 h): &gt; 100 mg/l

Molybdenum  
thiocarbamate EC 50 (Water Flea, 48 h): 100 mg/l**Chronic ToxicityProduct:** Based on available data, the classification criteria are met.**Toxicity to Aquatic Plants****Specified substance(s)**

Polyurea thickener ErC50 (Alga, 72 h): &gt; 100 mg/l

Molybdenum  
thiocarbamate EC 50 (Alga, 72 h): 100 mg/l**12.2 Persistence and Degradability****Biodegradation****Product:** Not applicable for mixtures**Specified substance(s)**

Polyurea thickener 48 % (28 d) Not readily degradable.

Molybdenum  
thiocarbamate 0 % (28 d, OECD 301B) Not easily biodegradable**12.3 Bioaccumulative potential****Product:** Not applicable for mixtures**12.4 Mobility in soil:****Product:** Not applicable for mixtures**12.5 Results of PBT and vPvB assessment:**

The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 Other adverse effects:**

Harmful to aquatic life with long lasting effects.

**13 Disposal considerations****13.1 Waste treatment methods****General information:** Dispose in accordance with all applicable regulations.**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

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**Product name:** GLEITMO 850 ST

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**14 TRANSPORT INFORMATION****DOT**

Not Regulated.

**TDG**

Not Regulated.

**IMDG - International Maritime Dangerous Goods Code**

Not Regulated.

**IATA**

Not Regulated.

**15 REGULATORY INFORMATION****US Federal Regulations****US State Regulations****US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**Inventory Status**

|      |                                        |
|------|----------------------------------------|
| DSL  | Q (quantity restricted)                |
| TSCA | On or in compliance with the inventory |

**16 OTHER INFORMATION****Revision Information:** Vertical lines in the margin indicate an amendment.**Wording of the H-statements in section 2 and 3**

|      |                                                         |
|------|---------------------------------------------------------|
| H315 | Causes skin irritation.                                 |
| H400 | Very toxic to aquatic life.                             |
| H410 | Very toxic to aquatic life with long lasting effects.   |
| H412 | Harmful to aquatic life with long lasting effects.      |
| H413 | May cause long lasting harmful effects to aquatic life. |

**Revision Date:** 17.07.2025

**Disclaimer:** The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.

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## Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative