

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product name:** GLEITMO 585 K

**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:** Lubricant

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

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

**Manufacturer**

FUCHS LUBRITECH GmbH  
Werner-Heisenberg-Straße 1  
67661 Kaiserslautern/Germany

US Distributor

Fuchs Lubricants Co.  
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708-333-8900

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**800-255-3924**

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Health Hazards**

Serious Eye Damage/Eye Irritation Category 2A

Toxic to reproduction Category 2

Specific Target Organ Toxicity - Repeated Exposure Category 2

**Environmental Hazards**

Acute hazards to the aquatic environment Category 2

Chronic hazards to the aquatic environment Category 3

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**Product name:** GLEITMO 585 K

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**Hazard summary**

**Physical Hazards:** No data available.

**2.2 Label Elements**



**Signal Words:** Warning

**Hazard Statement(s):** H319: Causes serious eye irritation.  
H361: Suspected of damaging fertility or the unborn child.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H401: Toxic to aquatic life.  
H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention:** P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P281: Use personal protective equipment as required.  
P260: Do not breathe dust or mists.  
P273: Avoid release to the environment.

**Response:** P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P308+P313: If exposed or concerned: Get medical advice/attention.

**Storage:** P405: Store locked up.

**Disposal:** P501: 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.

**Product name:** GLEITMO 585 K

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

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

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

**General information:** Mixture of the substances listed below with harmless additions.

Chemical name	Identifier	Concentration *	Notes
mineral oil, highly refined	72623-83-7	3.00 - 7.00%	
Lime hydrate	1305-62-0	1.00 - 5.00%	
Traizine derivative	37640-57-6	1.00 - 5.00%	
inorganic Zn compound	138265-88-0	1.00 - 5.00%	
Zn compound	1314-13-2	0.10 - 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	Classification
mineral oil, highly refined	72623-83-7
Lime hydrate	1305-62-0 Eye Dam. 1;H318, STOT SE 3;H335, Skin Irrit. 2;H315
Traizine derivative	37640-57-6 STOT RE 2;H373
inorganic Zn compound	138265-88-0 Repr. 2;H361d, Aquatic Acute 1;H400, Aquatic Chronic 2;H411
Zn compound	1314-13-2 Aquatic Acute 1;H400, Aquatic Chronic 1;H410

### 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:** Wash with soap and water.

**Ingestion:** Rinse mouth thoroughly.

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**Product name:** GLEITMO 585 K

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- 4.2 Most important symptoms and effects, both acute and delayed:** No data available.
- 4.3 Indication of any immediate medical attention and special treatment needed** Get medical attention if symptoms occur.

<b>SECTION 5: Firefighting measures</b>
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**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.

<b>SECTION 6: Accidental release measures</b>
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**6.1 Personal precautions, protective equipment and emergency procedures:** In case of spills, beware of slippery floors and surfaces.

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

**6.3 Methods and material for containment and cleaning up:** 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.

**Product name:** GLEITMO 585 K

**6.4 Reference to other sections:**

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.

**SECTION 7: Handling and storage:**

**7.1 Precautions for safe handling:**

Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

**7.2 Conditions for safe storage, including any incompatibilities:**

Local regulations concerning handling and storage of waterpolluting products have to be followed.

**7.3 Specific end use(s):**

not applicable

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1.Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
mineral oil, highly refined - Inhalable fraction.	TWA	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2014)
mineral oil, highly refined	PEL	500 ppm 2,000 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
mineral oil, highly refined - Mist.	PEL	5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
mineral oil, highly refined	TWA	400 ppm 1,600 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
mineral oil, highly refined - Mist.	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

**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**

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**Product name:** GLEITMO 585 K

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<b>General information:</b>	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.
<b>Eye/face protection:</b>	Safety glasses (EN 166) recommended during refilling.
<b>Skin protection</b>	
<b>Hand Protection:</b>	Avoid long-term and repeated skin contact. Protective gloves, where permitted in acc. to safety directions.
<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.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>
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**9.1 Information on basic physical and chemical properties**

<b>Physical state:</b>	solid
<b>Form:</b>	Paste
<b>Color:</b>	Light brown
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	not applicable
<b>Melting Point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	430 °C
<b>Flash Point:</b>	201 °C
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	Value not relevant for classification
<b>Flammability Limit - Upper (%)—:</b>	Not applicable for mixtures
<b>Flammability Limit - Lower (%)—:</b>	Not applicable for mixtures
<b>Vapor pressure:</b>	Not applicable for mixtures

Product name: GLEITMO 585 K

Vapor density (air=1):	Not applicable for mixtures
Density:	1.00 g/cm <sup>3</sup> (15 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Flow time:	Value not relevant for classification
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
9.2 Other information	No data available.

## SECTION 10: Stability and reactivity

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

## 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

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**Product name:** GLEITMO 585 K

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**Acute toxicity**

**Oral**

**Product:**

ATEmix: 37,279.93 mg/kg

**Specified substance(s)**

mineral oil, highly refined LD 50 (Rat): > 5,000 mg/kg

Lime hydrate LD 50 (Rat): > 2,001 mg/kg

Traizine derivative LD 50 (Rat): > 3,000 mg/kg

Zn compound LD 50 (Rat): > 2,001 mg/kg

**Dermal**

**Product:**

ATEmix: 30,440.5 mg/kg

**Specified substance(s)**

mineral oil, highly refined LD 50 (Rabbit): > 3,000 mg/kg

Lime hydrate LD 50 (Rabbit): > 2,500 mg/kg

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Zn compound LC 50 (Rat, 4 h): 5.7 mg/l

**Skin Corrosion/Irritation:**

**Product:**

OECD 404 (Rabbit): Based on available data, the classification criteria are not met.

**Serious Eye Damage/Eye Irritation:**

**Product:**

OECD 405 (Rabbit): No irritant effect at the eyes of rabbits (OECD 405).

**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.



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**Product name:** GLEITMO 585 K

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**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 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 met.

**Aspiration Hazard**

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

<b>12 ECOLOGICAL INFORMATION</b>
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**12.1 Toxicity**

**Acute toxicity**

**Product:** Based on available data, the classification criteria are met.

**Fish**

**Specified substance(s)**

Lime hydrate LC 50 (Fish, 96 h): 50.6 mg/l

Zn compound LC 50 (Fish, 96 h): > 6 mg/l

**Aquatic Invertebrates**

**Specified substance(s)**

Lime hydrate EC 50 (Water Flea, 48 h): 49.1 mg/l

Zn compound EC 50 (Water Flea, 48 h): 2.2 mg/l

**Chronic ToxicityProduct:** Based on available data, the classification criteria are met.

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**Product name:** GLEITMO 585 K

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**Toxicity to Aquatic Plants**

**Specified substance(s)**

Lime hydrate EC 50 (Alga, 72 h): 184.57 mg/l

Zn compound EC 50 (Alga, 72 h): 0.17 mg/l

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** Not applicable for mixtures

**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.

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**13 Disposal considerations**

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**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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**14 TRANSPORT INFORMATION**

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**DOT**

Not regulated.

**IMDG - International Maritime Dangerous Goods Code**

Not regulated.

**IATA**

Not regulated.

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**15 REGULATORY INFORMATION**

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**US Federal Regulations**

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**Product name:** GLEITMO 585 K

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## US State Regulations

### Inventory Status

DSL	Not in compliance with the inventory.
NDSL	Not in compliance with the inventory.
TSCA	On or in compliance with the inventory

## 16 OTHER INFORMATION

**Revision Information:** Vertical lines in the margin indicate an amendment.

### Wording of the R-phrases and H-statements in section 2 and 3

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Revision Date:** 31.03.2017

**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.