

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product name:** GLEITMO SFL 9680 K3

**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.  
17050 Lathrop Avenue  
Harvey, IL 60504

Telephone: +49 (0) 6301 3206-0  
Fax: +49 (0) 6301 3206-940

##### Contact Person:

FUCHS LUBRITECH GmbH - Product Safety Management  
Telephone: +49 (0) 6301 3206-0  
Fax: +49 (0) 6301 3206-940  
E-mail: INFO@FUCHS-LUBRITECH.DE

**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.

##### Health Hazards

Skin Corrosion/Irritation	Category 1C
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1
Germ Cell Mutagenicity	Category 2
Toxic to reproduction	Category 1B
Specific Target Organ Toxicity - Single Exposure	Category 1
Specific Target Organ Toxicity - Repeated Exposure	Category 1

##### Environmental Hazards

Acute hazards to the aquatic environment	Category 1
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**Product name:** GLEITMO SFL 9680 K3

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Chronic hazards to the aquatic environment    Category 1

**Hazard summary**

**Physical Hazards:**                      No data available.

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## 2.2 Label Elements



**Signal Words:** Danger

**Hazard Statement(s):** H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H341: Suspected of causing genetic defects.  
H360: May damage fertility or the unborn child.  
H370: Causes damage to organs.  
H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.  
H410: Very toxic to aquatic life with long lasting effects.

### Precautionary Statements

**Prevention:** P260: Do not breathe dust or mists.  
P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
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.  
P270: Do not eat, drink or smoke when using this product.  
P273: Avoid release to the environment.

**Response:** P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310: Immediately call a POISON CENTER/doctor.  
P321: Specific treatment (see on this label).  
P363: Wash contaminated clothing before reuse.  
P391: Collect spillage.

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

**Product name:** GLEITMO SFL 9680 K3

**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.

**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
Dibutyl tin dilaurate	77-58-7	50.00 - <100.00%	

\* 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
Dibutyl tin dilaurate	77-58-7	Skin Corr. 1C;H314, Eye Irrit. 1;H318, Skin Sens. 1;H317, Muta. 2;H341, Repr. 1B;H360FD, STOT SE 1;H370, STOT RE 1;H372, 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:** If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Supply fresh air; consult doctor in case of symptoms. (eventually by inhaling the overheated product)

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Destroy or thoroughly clean contaminated shoes. Get medical attention. 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. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center. Seek medical attention.

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|---|--|
| <b>4.2 Most important symptoms and effects, both acute and delayed:</b>               | Suspected to cause hypersensitivity and allergy. Risk of serious damage to eyes. Causes burns. |
| <b>4.3 Indication of any immediate medical attention and special treatment needed</b> | Symptoms may be delayed.   |

## SECTION 5: Firefighting 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.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. 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. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

**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.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

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## SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. 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. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store locked up. 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
Dibutyl tin dilaurate - as Sn	PEL	0.1 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Dibutyl tin dilaurate - as Sn	TWA	0.1 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Dibutyl tin dilaurate - as Sn	STEL	0.2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (02 2012)
Dibutyl tin dilaurate - as Sn	TWA	0.1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (02 2012)

### 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

- 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.
- Eye/face protection:** Avoid contact with eyes. Wear closed protection glasses.

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**Skin protection**

**Hand Protection:**

Material: Nitrile-butadiene rubber (NBR).  
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.

**Other:**

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

**Respiratory Protection:**

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

**Thermal hazards:**

No data available.

**Hygiene measures:**

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.

**Environmental Controls:**

No data available.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Pale yellow
<b>Odor:</b>	No data available.
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	3.5 - 4.0
<b>Freezing point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	Value not relevant for classification
<b>Flash Point:</b>	> 140 °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
<b>Vapor density (air=1):</b>	Not applicable for mixtures
<b>Density:</b>	1.05 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Autoignition Temperature:</b>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification

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**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**

**Minimum ignition temperature:** 450 °C

**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:** Causes severe skin burns. May cause an allergic skin reaction.

**Eye contact:** Causes serious eye damage.

**Acute toxicity**

**Oral**

**Product:**

ATEmix: 2,071 mg/kg

**Specified substance(s)**

Dibutyl tin dilaurate

LD 50 (Rat): 2,071 mg/kg (OECD 401)

**Dermal**

**Product:**

Not classified for acute toxicity based on available data.

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.



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**Product name:** GLEITMO SFL 9680 K3

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**Skin Corrosion/Irritation:**

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

**Serious Eye Damage/Eye Irritation:**

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

**Respiratory or Skin Sensitization:**

**Product:** Skin sensitizer: Based on available data, the classification criteria are 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 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

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

No carcinogenic components identified

**Reproductive toxicity**

**Product:**

**Specific Target Organ Toxicity - Single Exposure**

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

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**12 ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

**Acute toxicity**

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

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

**12.2 Persistence and Degradability**

**Product name:** GLEITMO SFL 9680 K3

**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:**

Very toxic 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. Do not allow to enter drains, sewers or watercourses.

**14 TRANSPORT INFORMATION**

**DOT**

**IMDG - International Maritime Dangerous Goods Code**

14.1 UN Number: UN 3082  
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.(Dibutyl tin dilaurate, Dibutyl tin dilaurate)  
14.3 Transport Hazard Class(es): 9  
14.4 Subsidiary risk label: –  
14.5 Packing Group: III  
14.6 Label(s): 9  
14.7 Marine Pollutant: P  
14.8 EmS No.: F-A; S-F

**IATA**

14.1 UN Number: UN 3082  
14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Dibutyl tin dilaurate, Dibutyl tin dilaurate)  
14.3 Transport Hazard Class(es): 9  
14.4 Subsidiary risk label: –  
14.5 Packing Group: III  
14.6 Label(s): 9MI

**15 REGULATORY INFORMATION**

**US Federal Regulations**

**US State Regulations**

**Product name:** GLEITMO SFL 9680 K3

**Inventory Status**

DSL	On or 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 H-statements in section 2 and 3**

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Revision Date:** 06.04.2018

**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.