

## MATERIAL SAFETY DATA SHEET

acc. to ISO/DIS 11014 for USA

Printing date 08/14/2015

Reviewed on 08/14/2015

### 1 Identification

- **Product identifier**
- **Trade name:** gleitmo 585 K-Mod 1
- **Relevant identified uses of the substance or mixture and uses advised against**  
No uses advised against identified.
- **Application of the substance / the preparation:** Lubricating grease
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
FUCHS LUBRITECH GmbH  
Werner-Heisenberg-Strasse 1  
D - 67661 Kaiserslautern
- **Information department:**  
Fuchs Lubritech GmbH  
Product Safety Management  
Tel: +49 (0)6301 3206 808  
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- **Emergency telephone number:** +1149 (0) 171/4632154

**EMERGENCY  
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800-255-3924**

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Zinc borate  
Melamincyanurate
- **Hazard statements**  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear eye protection / face protection.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/  
international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**  
Health = 0  
Fire = 1  
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  
Health = \*0  
Fire = 1  
Reactivity = 0
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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**3 Composition/information on ingredients**• **Chemical characterization: Mixtures**• **Description:**

Lubricating grease: Thickener system and additives in synthetic base oil.

• **Dangerous components / Hazard communications / Concentration range %**

Lime hydrate 2.4 -4.9%

Melamincyanurate 2.4 -4.9%

Zinc borate 2.4 -4.9%

• **Additional information:**

For further information on the hazard ingredients and established PELs and TLVs refer to section 15.

**4 First-aid measures**• **Description of first aid measures**• **General information:**

Change clothes and shoes contaminated or soaked by the product.

Never put rags contaminated by the product into cloth-pockets.

• **After inhalation:** Seek medical treatment in case of complaints.• **After skin contact:** Generally the product does not irritate the skin.• **After eye contact:** Rinse opened eye for several minutes under running water.• **After swallowing:** Seek medical treatment.• **Information for doctor:**• **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Fire-fighting measures**• **Extinguishing media**• **Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with alcohol resistant foam or surfactant containing water jet.

Use fire fighting measures that suit the environment.

• **For safety reasons unsuitable extinguishing agents:** Water with full jet• **Special hazards arising from the substance or mixture**

No further relevant information available.

• **Advice for firefighters**• **Protective equipment:**

In case of fire fighting: wear self containing breathing apparatus

**6 Accidental release measures**• **Personal precautions, protective equipment and emergency procedures** Not required.• **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

• **Methods and material for containment and cleaning up:** Pick up mechanically.• **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7 Handling and storage**• **Handling:**• **Precautions for safe handling**

Do not eat, drink or smoke when working with the product.

Take usual precautions when handling mineral oil products or chemical products.

• **Information about protection against explosions and fires:**

No special measures required.

• **Conditions for safe storage, including any incompatibilities**• **Storage:**• **Requirements to be met by storerooms and receptacles:**

Use only receptacles specifically permitted for this substance/product.

• **Information about storage in one common storage facility:**

Store away from foodstuffs.

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- **Further information about storage conditions:**  
Local regulations concerning handling and storage of water polluting products have to be followed.  
Store under lock and key.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with PELs / TLVs that have to be monitored at the workplace.  
There are no established exposure limits.  
**Lime hydrate**  
PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction  
REL Long-term value: 5 mg/m<sup>3</sup>  
TLV Long-term value: 5 mg/m<sup>3</sup>
- **Additional information:**  
The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Wash hands before breaks and at the end of work.  
Avoid close or long term contact with the skin.  
Use skin protection cream for skin protection.
- **Breathing equipment:** Avoid breathing vapour/ aerosol.
- **Protection of hands:** Protective gloves and protective skin cream
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact gloves made of the following materials are suitable:**  
Nitrile rubber, NBR  
Neoprene gloves
- **Not suitable are gloves made of the following materials:**  
Butyl rubber, BR  
Natural rubber, NR
- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Pasty
Color:	Beige
- **Odor:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**

Melting point/Melting range:	> 170 °C
Boiling point/Boiling range:	430 °C
- **Flash point:** 201 °C (EN ISO 2592)
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:** 378 °C  
like paper
- **Decomposition temperature:** Not determined

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- |  |   |
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| <ul style="list-style-type: none"> <li>• Auto igniting:</li> <li>• Danger of explosion:</li> <li>• Explosion limits:               <ul style="list-style-type: none"> <li>Lower:</li> <li>Upper:</li> </ul> </li> <li>• Vapor pressure at 20 °C:</li> <li>• Density at 20 °C:</li> <li>• Relative density</li> <li>• Vapour density</li> <li>• Evaporation rate</li> <li>• Solubility in / Miscibility with Water:</li> <li>• Partition coefficient (n-octanol/water):</li> <li>• Viscosity:</li> <li>• Dynamic:</li> <li>• Kinematic:</li> <li>• Other information</li> </ul> | <p>Product is not selfigniting.</p> <p>Product does not present an explosion hazard.</p> <p>Not determined.<br/>Not determined.</p> <p>1 hPa</p> <p>1 g/cm<sup>3</sup> (DIN 51 757)<br/>ASTM D 1298</p> <p>Not determined.<br/>Not applicable.<br/>Not applicable.</p> <p>Insoluble.</p> <p>Not determined.</p> <p>2 NLGI<br/>Not applicable.<br/>Not applicable.</p> <p>No further relevant information available.</p> |
|--|---|

**10 Stability and reactivity**

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

**11 Toxicological information**

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- Carcinogenic categories
- IARC (International Agency for Research on Cancer)  
None of the ingredients is listed.
- NTP (National Toxicology Program)  
None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration)  
None of the ingredients is listed.

**12 Ecological information**

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No data available
- Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Toxic for fish
- Behavior in sewage processing plants:  
The product can be mechanically separated.  
The product sinks in the sewage water on account of its high specific gravity; eventually it is able to pass the conventional collector for light-density material.

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- **Additional ecological information:**
- **General notes:**  
(German) Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water,  
water course or sewage system.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
When storing used products, ensure that the waste categories and mixing instructions are observed.  
Delivery of waste products to officially authorized collectors only.
- **Uncleaned packagings:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

**14 Transport information**

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Void
- **Packing group**
- **DOT, ADR, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**  
None of the ingredient is listed.
- **Section 313 (Specific toxic chemical listings):**  
1314-13-2 Zn compound
- **TSCA (Toxic Substances Control Act):**  
All ingredients are listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**  
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**  
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**  
None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**  
None of the ingredients is listed.
- **Cancerogenity categories**
- **EPA (Environmental Protection Agency)**  
1314-13-2 Zn compound: D, I, II

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- **TLV (Threshold Limit Value established by ACGIH)**  
None of the ingredients is listed.
- **MAK (German Maximum Workplace Concentration)**  
None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**  
None of the ingredients is listed.
- **National regulations:**
- **Water hazard class:**  
(German) Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**  
Local regulations are to be kept.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:**  
FUCHS LUBRITECH GmbH  
Product Safety Management
- **Contact:**  
Product Safety Management  
Tel: +49 (0)6301 3206 808  
E-mail: reach@fuchs-lubritech.de
- **Date of preparation / last revision** 08/14/2015 / -
- **Abbreviations and acronyms:**  
Repr. 2: Reproductive toxicity, Hazard Category 2  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2