

## Material Safety Data Sheet According to 91/155 EC

Printing date 17.09.2003

Reviewed on 17.09.2003

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name: +GF+Top (Code-Nr. 790060228)**
- **Article number: 027023**
- **Application of the substance / the preparation Grease**
- **Manufacturer/Supplier:**  
KLÜBER LUBRICATION MÜNCHEN KG  
Geisenhausenerstrasse 7  
D-81379 München  
Tel.: 0049 (0) 897876-0  
Fax: 0049 (0) 897876-333  
Notfallauskunft: 0049 (0) 897876-700
- **Further information obtainable from:** Material Compliance Management

### 2 Composition/information on ingredients

- **Chemical characterization**
- **Description:**  
polyalkylene glycol oil  
lithium soap
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash off with soap and plenty of water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

(Contd. on page 2)

# Material Safety Data Sheet

## According to 91/155 EC

Printing date 17.09.2003

Reviewed on 17.09.2003

Trade name: +GF+Top (Code-Nr. 790060228)

(Contd. of page 1)

- **After swallowing:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**
  - Water haze
  - Foam
  - Fire-extinguishing powder
  - Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
  - In case of fire, the following can be released:
    - Carbon monoxide (CO)
    - Hydrocarbons
- **Protective equipment:**
  - Do not inhale explosion gases or combustion gases.
  - Standard procedure for chemical fires.
- **Additional information**
  - Cool endangered receptacles with water spray.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
  - Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
  - Pick up mechanically.
  - Dispose of the material collected according to regulations.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - Store in cool, dry conditions in well sealed receptacles.
- **Information about storage in one common storage facility:**
  - Store away from foodstuffs.
  - Store away from oxidizing agents.
- **Further information about storage conditions:** None.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 3)

# Material Safety Data Sheet

## According to 91/155 EC

Printing date 17.09.2003

Reviewed on 17.09.2003

Trade name: +GF+Top (Code-Nr. 790060228)

(Contd. of page 2)

- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Avoid close or long term contact with the skin.  
Be sure to clean skin thoroughly after work and before breaks.
- **Respiratory protection:** Not required.
- **Protection of hands:**  
Preventive skin protection by use of skin-protecting agents is recommended.
- **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Pasty
<b>Colour:</b>	Brown
<b>Odour:</b>	Product specific

### · Change in condition

<b>Drip point:</b>	> 160°C (DIN ISO 2176)
--------------------	------------------------

### · Flash point:

Not applicable.

### · Danger of explosion:

Product does not present an explosion hazard.

### · Density at 20°C:

~ 0.99 g/cm<sup>3</sup>

### · Solubility in / Miscibility with water:

Insoluble.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Materials to be avoided:** oxidizing agents
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** none under normal use

GB

(Contd. on page 4)

# Material Safety Data Sheet

## According to 91/155 EC

Printing date 17.09.2003

Reviewed on 17.09.2003

Trade name: +GF+Top (Code-Nr. 790060228)

(Contd. of page 3)

### 11 Toxicological information

- **Additional toxicological information:**  
Prolonged skin contact may cause skin irritation and/or dermatitis.

### 12 Ecological information

- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:** The product can be mechanically separated.
- **General notes:** Do not allow product to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Product:**
- **Recommendation** Can be incinerated in accordance with local and national regulations.
- **Waste disposal key:**  
For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The waste code number has to be determined in accordance with the local waste disposer.
- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Transport/Additional information:**  
Not classified as dangerous according to the above specifications.

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.

### 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 MSDS:** Material Compliance Management
- **Contact:** Tel.: +49 (0) 897876-564