



**Safety Data Sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 10.07.2008

Revision: 10.07.2008

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

· **Product details**

· **Trade name:** Glycerol 99%

· **Application of the substance / the preparation**

Intermediate for foods and cosmetics.

Plastic production.

Production of synthetic resin, production of pharmaceuticals, production of explosives.

· **Manufacturer/Supplier:**

Kraemer & Martin GmbH

CHEMIE-PHARMA-FOOD-ADDITIVES

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· **Further information obtainable from:** Abteilung Qualitäts-/Umweltmanagement

· **Information in case of emergency:** +49 (0) 2241-5497-46

**2 Hazards identification**

· **Hazard description:** Not applicable.

· **Information concerning particular hazards for human and environment:** Not applicable.

**3 Composition/information on ingredients**

· **Chemical characterization:**

· **CAS No. Description**

56-81-5 glycerol

· **Identification number(s)**

· **EINECS Number:** 200-289-5

**4 First aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Generally the product does not irritate the skin.

Wash off with plenty of water. Remove contaminated clothing.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

If symptoms persist consult doctor.

Make victim drink plenty of water.

**5 Fire-fighting measures**

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

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- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
Combustible. Vapours heavier than air. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air on intense heating.  
In case of fire: at administration of oxygen: carbon dioxide (CO<sub>2</sub>) and water vapours; at oxygen deficiency prevalent: carbon monoxide (CO), unburned carbon and crack products: aldehyde, ketone.
- **Protective equipment:**  
Wear fully protective suit.  
Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.  
Remove persons from danger area.  
Do not inhale vapours/aerosols.
- **Measures for environmental protection:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Send for recovery or disposal in suitable receptacles.  
Dilute with plenty water.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Only use materials that are especially allowed for this product.
- **Information about storage in one common storage facility:** Store away from water.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from humidity and water.

### 8 Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

**56-81-5 glycerol**WEL Long-term value: 10 mg/m<sup>3</sup>

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Do not eat or drink while working.  
Wash hands before breaks and at the end of work.

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- **Respiratory protection:**

*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*

- **Protection of hands:**

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

- **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.*

- **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.*

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **General Information**

<b>Form:</b>	Viscous
<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless

- **Change in condition**

**Melting point/Melting range:** ~ 18°C

**Boiling point/Boiling range:** 290°C

· **Flash point:** 160°C

· **Ignition temperature:** 400°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Density at 20°C:** 1.26 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Fully miscible.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

*No decomposition if used according to specifications.*

*To avoid thermal decomposition do not overheat.*

- **Materials to be avoided:**

*Risk of explosion with: halogens, strong oxidizing agents, peroxi compounds, nitric acid / conc. sulfuric acid.*

*Risk of ignition or formation of inflammable gases or vapours with: CrO<sub>3</sub>, potassium permanganate.*

*Exothermic reaction with: phosphorus oxides.*

- **Dangerous decomposition products:** in the event of fire: see chapter 5.

- **Additional information:** hgroscopic; forms explosive mixtures with air on intense heating.

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### 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

Oral	LD50	12600 mg/kg (Ratte/rat)
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- **Primary irritant effect:**

- **on the skin:** Slight irritations.

- **on the eye:** Slight irritations.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

### 12 Ecological information

- **Information about elimination (persistence and degradability):** Easily biodegradable

- **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 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 dangerous according to the above specifications.

### 15 Regulatory information

- **Labelling according to EU guidelines:**

The substance is not subject to classification according to EU lists and other sources of literature known to us.

Observe the general safety regulations when handling chemicals.

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**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:** Abteilung Qualitäts-/Umweltmanagement
- **Contact:** Dipl.-Ing. René Krüger
- **\* Data compared to the previous version altered.**

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