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

· **Informations to product No. 7245**

· **Product name:**

**Glycerol**  
Glycerolum, Glycerinum anhydricum

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

· **Hazard classification:** The substance is not classified as dangerous according to European Union legislation.

## 3 Composition / information on ingredients

· **Chemical characterization:**

**CAS-No. Substance name**

56-81-5 Glycerol

· **EINECS-No:** 200-289-5

· **REACH Reg. No.:** 01-2119471987-18-0000

· **INCI-Name:** Glycerin

## 4 First aid measures

· **after inhalation:** (Vapours of hot product): Fresh air. If feeling unwell seek medical advice.


· **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

· **after eye contact:** Rinse out with plenty of water with the eyelid wide open.

· **after swallowing:** Drink plenty of water. If feeling unwell seek medical advice.

· **Medical advice:**

· **The following symptoms might occur:** Diarrhea if bigger quantities are swallowed.

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## 5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

## 6 Accidental release measures

- **Personal protective measures:** Do not inhale vapours/aerosol.
- **Environmental protective measures:** Dilute with plenty of water.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust.

## 7 Handling and storage


- **Handling:** No special requirements.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ).
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** none

## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Not required.
- **Hand protection:** Not required.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties

- **Form:** viscous liquid
- **Colour:** colourless
- **Odour:** odourless
- **Melting point / melting range:** 18 °C
- **Boiling point / boiling range:** 290 °C
- **Flash point:** 199 °C
- **Ignition temperature:** 370 °C
- **Explosion limits:**
- **lower:** 2,7 Vol %

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- **upper:** 19 Vol %
- **Vapour pressure:** (20 °C) <0,1 hPa
- **Density:** (20 °C) 1,26 g/cm³
- **Solubility in / Miscibility with**
- **Water:** Completely miscible
- **pH-range:** 6,5 – 8,5 (50%)
- **Viscosity:**
- **dynamic:** (20 °C) 1412 mPas

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
No decomposition during appropriate use.
- **Materials to avoid:** Strong oxidants, peroxides, halogens, water (hygroscopic).
- **Hazardous reactions:** Spontaneous ignition in contact with potassium permanganate.
- **Hazardous decomposition products:** above ca. 300°C acroleine is released.

## 11 Toxicological information


- **Acute toxicity:**  
LD50 (oral,Rat): > 11500 mg/kg  
LC50 (inhalativ,Rat): > 275 mg/cbm/4h
- **Primary irritant effect:**
- **on skin:** Nit irritant.
- **on eyes:** Slight reversible irritations on mucous membranes.
- **on respiratory organs:** After inhalation of aerosol irritations on respiratory ways and lung.
- **after swallowing:** (big quantities): Vomiting, Abdominal pain, Headache, Dizzyness, Diarrhea, Cyanosis.

## 12 Ecological information

- **Information about elimination (persistence and degradability):**  
Readily biodegradable (OECD 301C).
- **Aquatic toxicity:**  
Fish toxicity: LC50 (Pimephales promelas), static, 96 h:  $\geq$  885 mg/l  
Daphnia toxicity: LC50 (Daphnia magna), static, 48 h: 1.955 mg/l  
Water plants: EC50 (Microcystis aeruginosa) static, 192 h: 2.900 mg/l  
Activated sludge: EC50, OECD 209, 3 h: > 1.000 mg/l
- **log p(O/W):** -1,76
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

## 13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

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## 14 Transport informations

- **Land transport according to ADR:**

Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product does not need to be labelled according to GHS-regulations.

- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

- **Storage class TRGS 510:** 10

- **VbF class:** -

## 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.