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

• **Informations to product No. 3297**

• **Product name:**

**Macrogol 4000 Pulver**  
**Macrogola 4000, Polyäthylenglykolum 4000**  
**Macrogol 4000 Powder**

• **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

• **Hazards identification:** The substance is not classified as dangerous according to European Union legislation.

## 3 Composition / information on ingredients

• **Chemical characterization:**

Polyethylen glycole. HO-(CH<sub>2</sub>-CH<sub>2</sub>O)<sub>n</sub>-H Average molar mass: 4000

**CAS-No. Substance name**

25322-68-3 Polyethylene glycole

• **EINECS-No.:** 500-038-2

• **REACH Reg. No.:** 01-2119958801-32-0000

• **INCI-Name:** PEG-75

## 4 First aid measures


• **General advices:** Change contaminated clothes.

• **after inhalation:** Fresh air.

• **after skin contact:** wash away with water..

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

• **after swallowing:** Rinse mouth, drink plenty of water.

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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.

## 6 Accidental release measures

- **Personal protective measures:** Avoid contact with substance and dust generation.
- **Environmental protective measures:** Avoid entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

## 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 ). Protect from water and air moisture.

## 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:** Dust protection mask
- **Hand protection:** Protection gloves of rubber or latex
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** nearly odourless
- **Melting point / melting range:** 50 - 58 °C
- **Boiling point / boiling range:** Not determined
- **Flash point:** > 250 °C DIN 51376
- **Ignition temperature:** >320 °C DIN 51794
- **Decomposition temperature:** > 220 °C
- **Density:** (20 °C) 1,21 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) ca. 500 g/l
- **pH-range:** (100 g/l, 20 °C) ca. 4 - 7

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

## 11 Toxicological information

- **Acute toxicity:**  
LD50 (Rat, oral): > 15000 mg/kg  
LD50 (Rabbit, oral): > 2000 mg/kg
- **Primary irritant effect:**
  - **on skin:** Not irritant
  - **on eyes:** Not irritant

## 12 Ecological information

- **Information about elimination (persistence and degradability):**  
> 95% 23d, Readily biodegradable.
- **Ecotoxicological effects:**  
**Toxicity for fishes, algae, bacteria:**  
LC50 : > 1000 mg/l (96 h) (OECD 203)  
EC50 : > 1,000 mg/l (Daphnia; 48 h) OECD 202  
EC50 : > 1,000 mg/l (Desmodesmus subspicatus; 72 h) OECD 201  
EC10 : > 10,000 mg/l (Pseudomonas putida; 18 h)
- **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.

## 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

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- **Storage class TRGS 510:** 11

## 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:** Anpassung an Verordnung (EC) 1907/2006 (REACH)