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

- **Informations to product No. 3284**
- **Product name:**

Macrogol 400
Polyethylenglycolum 400

- **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. $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ Average molar mass: 400

CAS-No. Substance name

25322-68-3 Polyethylene glycole


- **EINECS-No.:** 500-038-2

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

- **INCI-Name:** PEG-8

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, but not flammable. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **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

- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:**
Dilute with water if or 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.
TRGS 900: AGW respirable fraction: 1000 mg/m³
- **Respiratory protection:** Not required.
- **Hand protection:** Not required.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** viscose liquid
- **Colour:** colourless
- **Odour:** nearly odourless
- **Solidification point:** 4 – 8 °C (European Pharmacopeia / 2.2.18)
- **Pourpoint:** ca. 6 °C (ASTM D 97)
- **Boiling point / boiling range:** > 250 °C
- **Flash point:** 240 °C
- **Ignition temperature:** 360 °C DIN 51794
- **Decomposition temperature:** > 220 °C
- **Density:** 1,126 g/cm³
- **Solubility in / Miscibility with**
- **Water:** miscible / soluble
- **pH-range:** (100 g/l, 20 °C) 5 - 7

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- **log p(o/w):** not applicable
- **Viscosity (kinematic):** (20 °C) 105-140 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**
No decomposition during appropriate use. Thermal decomposition above 360 °C.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:** LD50 (Rat,oral): > 15000 mg/kg
- **Primary irritant effect:**
- **on skin:** Not irritant
- **on eyes:** Not irritant
- **Sensitisation:** not sensitising
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.

12 Ecological information

- **Information about elimination (persistence and degradability):** > 80% (28 d) OECD 301 E
- **Additional information:** Readily biodegradable.
- Fish toxicity (Leuciscus idus): LC50 > 10 g/l/48h (DIN 38412 T.15)
- Bacteria toxicity EC0 > 12,5 g/l (OECD 209)
- Organic Carbon (DOC): 492 mg/g
- CSB: 1858 mg/g (DIN 38409-H41)
- **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):**

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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.