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

· **Informations to product No. 4553**

· **Product name:**

Poloxamer 407

· **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:**

CAS-No. Substance name

9003-11-6 Oxiran, methyl-, polymer with oxirane

· **EINECS-No.:** 618-355-0

· **REACH Reg. No.:** (pre-registered)


· **INCI-Name:** Poloxamer 407

4 First aid measures

- **After inhalation:** (dust) Coughing. Bring affected person to fresh air.
- **after skin contact:** Wash away with water. Remove contaminated clothing.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** If feeling unwell seek medical advice.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting

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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 dust formation and contact with substance.
- **Environmental protective measures:** Prevent from 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:** Ventilation / Exhaustion of working place if dusts are generated
- **Dust explosion class:** Dust explosion class 1
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Protect against heat.

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

9 Physical and chemical properties

- **Form:** solid, coarse powder, waxy
- **Colour:** colourless, white
- **Odour:** nearly odourless, faint characteristic odor
- **Melting point / melting range:** 53 - 57 °C
- **Boiling point / boiling range:** not determined.
- **Flash point:** > 150 °C
- **Density:** not determined.
- **Solubility in / Miscibility with**
- **Water:** > 175 g/l
- **pH-value:** 6-9 (50g/l)
- **Bulk density:** ca. 500kg/m³
- **Minimum ignition energy:** 10-30 mJ

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**
No decomposition during appropriate use.

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- **Materials to avoid:** Strong oxidizers, Strong bases, Strong acids
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:** > 10.000 mg/kg (oral, Rat): no toxic effect observed.
LD50 Rabbit (dermal): > 5.000 mg/kg
- **Primary irritant effect:**
On eyes: no irritant effect.
On skin: no irritant effect.

12 Ecological information

- **Aquatic toxicity:**
Not acute harmful for water organisms.
Fish toxicity: LC50 (96 h) > 10.000 mg/l, Brachydanio rerio (OECD-guideline 203, static)
Aquatic invertebrates: EC50 (48 h) > 1,10 mg/l, Ceriodaphnia sp. (static)
Water plants: EC50 (72 h) > 970 mg/l, Alges
- **Information about elimination (persistence and degradability):**
The product is not readily eliminated in sewage plants., based on experiences. The product was not tested. This information is based on conclusions from materials of similar composition or structure.
Elimination:
3 % DOC-reduction (24 h) (ISO 18749) (aerob, activated sludge)
- **Bioaccumulation potential**
The polymer is not bioavailable due to its structural properties. Bioaccumulation is not likely.
- **log Pow:** <-5
- **Water hazard class:** 1 (self classification): 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):**

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- **Water hazard class:** see chapter 12
- **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:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.