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

- **Informations to product No. 3478**
- **Product name:**

Polysorbat 80 Polysorbatum 80

- **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

- **CAS-No. Substance name**

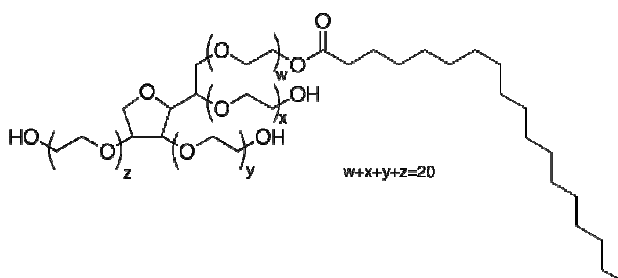
9005-65-6 Polyoxyethylen(20)-sorbitan-monooleate


- **EINECS-No.:** 500-19-9

- **REACH Reg. No.:** 01-2120057650-60-0000

- **INCI-Name:** Polysorbate 80

- **Chemical characterization:** Mixture of partial esters of fatty acids, mainly oleic acid (octadec-9-enoic acid), with sorbitol and its anhydrides, ethoxylated with ca. 20 mol ethylene oxide for each mol sorbitol and sorbitol anhydride.



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4 First aid measures

- **after skin contact:** Wash away with water.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

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

- **Personal protective measures:** Avoid contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust.

7 Handling and storage

- **Handling:** Keep away from open fire.
- **Storage:**
- **Requirements for storage areas and containers:**
Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

8 Exposure controls / personal protective equipment


Components with limit values that require monitoring at the workplace:

The product does not contain relevant quantities of substances with limit values that require monitoring at the workplace.

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

9 Physical and chemical properties

- **Form:** liquid
- **Colour:** yellow-light brown
- **Odour:** odourless

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- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** > 100 °C
- **Flash point:** > 100 °C
- **Density:** (20 °C) 1,11 g/cm³
- **Solubility in / Miscibility with**
- **Water:** readily soluble / miscible
- **pH-range:** (50 g/l, 20 °C) 5 - 7
- **Viscosity:** (25 °C) ca. 400 mPa*s

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

- **Additional toxicological informations:**
In case of appropriate handling and usage the product does not cause harmful effects.

12 Ecological information

- **Aquatic toxicity:**
Quantitative ecotoxicological data for this product are not available.
Not acute harmful for water organisms.
- **Information about elimination (persistence and degradability):** Readily biodegradable..
- **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.

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- **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.