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

- **Informations to product No. 3472**
- **Product name:**

Polysorbat 20 Polysorbatum 20

- **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**

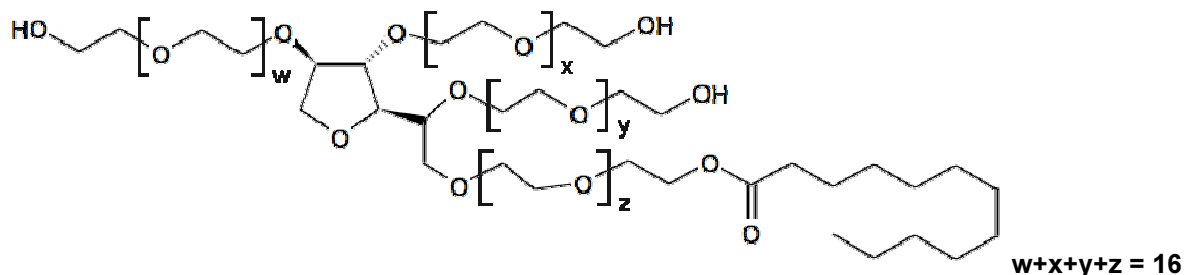
9005-64-5 Polyoxyethylen(20)-sorbitan-monolaurate


- **EINECS-No.:** 500-018-3

- **REACH Reg. No.:** 01-2119971749-17-0000

- **INCI-Name:** Polysorbate 20

- **Chemical characterization:** Mixture of partial esters of fatty acids, mainly stearic acid (octadecanoic 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.