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

· **Informations to product No. 2554**

· **Product name:**

Propylenglycol
Propylenglycolum

· **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

57-55-6 1,2-Propylenglycol

· **EINECS-No.:** 200-338-0

· **REACH-Reg-No.:** 01-2119456809-23-0000

· **INCI-Name:** Propylene Glycol


4 First aid measures

· **after inhalation:** Fresh air.

· **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

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

· **after swallowing:** Drink water. Induce vomiting. Seek medical advice. Gastrolavage.

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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:

- **Personal protective measures:** Avoid dust formation and 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. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage


- **Handling:** No special requirements.
- **Advice on safe handling:** No special measures required.
- **Informations to fire or explosion protection:** No special measures required. Handling with hot product requires additional ventilation or local exhaust ventilation. Spontaneous ignition possible.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Keep away from ignition sources. Protect from direct sunlight.
- **Additional informations to storage conditions:** Store in stainless steel or aluminum at max. temperature 40 °C

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:** Required if Vapours/Aerosols are generated.
- **Hand protection:** Protection gloves of latex or rubber
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** liquid (viscous)
- **Colour:** colourless
- **Odour:** Nearly odourless
- **Melting point / melting range:** - 59 °C
- **Boiling point / boiling range:** 185 °C
- **Flash point:** 104 °C
- **Ignition temperature:** 371 °C
- **Explosion limits:**
- **lower:** 2,6 Vol %

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- **upper:** 12,6 Vol %
- **Vapour pressure:** (20 °C): 0,11 hPa, (25°C): 0,2 hPa
- **Density:** (20 °C) 1,0362 g/cm³
- **Solubility in / Miscibility with**
- **Water:** completely miscible
- **pH-range:** neutral.
- **Viscosity:**
- **dynamic:** (25 °C) 46 mPas
- **Vapour density:** 2,62

10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use. At high temperature, the product may decompose. During decomposition forming gases can lead to raising pressure in closed systems. Avoid direct sunlight or ultraviolet radiation.
- **Materials to avoid:** Strong oxidizers.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none
- **Additional information:** Hygroscopic

11 Toxicological information

- **Acute toxicity:**
In animal experiments: Very low acute toxicity.
LD50 (oral,Rat): > 2000 mg/kg (MSDS Shell Cemics) >20000mg/kg (SDB DOW)
LD 50 (dermal, rabbit): >2000mg/kg (SDB DOW)
- **Primary irritating effect:** Slight irritant effect on mucous membranes and eyes.
- **Inhalation:** At room temperature, due to low volatility, exposure to vapor is minimal. Vapors can cause irritation of the upper respiratory tract.
- **Eye damage:** may cause slight temporary eye irritation. Aerosol may cause eye irritation.
- **Toxicity in case of repeated exposition:** In rare cases, repeated exposure to propylene glycol cause damage to the central nervous system.
- **Additional toxicological informations:**
In case of appropriate handling and usage the product does not cause harmful effects.

12 Ecological information

- **Aquatic toxicity:**
Fish toxicity: LC50 > 1000 mg/l/96h
LC50 (Oncorhynchus mykiss): 40,613mg/l
LC50 (Ceriodaphnia dubia): 18,340mg/l
LC50 (Mysidae): 18,800mg/l
- **Toxicity for plants:**
ErC50 (Pseudokirchneriella subcapitata): 19,000mg/l
ErC50 (Diatomeae): 19100mg/l
- **Toxicity for Mikroorganisms:**
NOEC (Pseudomonas putida): >20000mg/l
NOEC (Ceriodaphnia): 13020 mg/l
- **log Pow:** -1,07

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· **Information about elimination (persistence and degradability):** Readily biodegradable.

Biodegradability	Exposition time	Method	10-Day-Window
81%	28d	OECD Test 301F	successful
96%	64d	OECD Test 306	not applicable

· **Water hazard class:** 1 (VwVwS, Annex 3): 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
- **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.