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

· **Informations to product No. 5227**

· **Product name:**

Dimethylsulfoxid, API Dimethylis sulfoxidum

· **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-Nr. Bezeichnung

67-68-5 Dimethyl sulfoxide

· **EINECS-No.:** 200-664-3

· **REACH Reg. No.:** 01-2119431362-50-0000

· **INCI-Name:** -

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. Get medical advice.

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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: Sulfur oxides.
- **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:** Do not release into drainage.
- **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 temperatures above 30°C. Protect from water and air moisture.

8 Exposure controls / personal protective equipment

- **Personal protective equipment:** The usual precaution measures during handling of chemicals are to observe.
- **Exposition limit:** 160 mg/m³ (TRGS 900)
- **Respiratory protection:** Not required.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** liquid
- **Colour:** colourless
- **Odour:** characteristic
- **Melting point:** 16 – 19 °C
- **Boiling point / boiling range:** 189 °C
- **Flash point:** 87 °C
- **Explosion limits**
upper: 42 % (V)
lower: 3,5% (V)
- **Vapour pressure:** (20 °C) 0,55 hPa
- **Density:** (20 °C) 1,1 g/cm³
- **Solubility in / Miscibility with**
- **Water:** miscible

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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): 14500 mg/kg
LD50 (rat,inhal): 40250 ppm/4h
LD50 (rabbit,dermal): > 5000 mg/kg
- **Primary irritant effect:**
- **on skin:** Not irritant
- **on eyes:** Not irritant
- **Mutagenic potential:** negative
- **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):** 31% (OECD 301D) Not readily biodegradable
- **Aquatic toxicity:**
Fish: LC50 - Pimephales promelas 34.000 mg/l - 96 h
LC50 - Oncorhynchus mykiss - 35.000 mg/l - 96 h
Daphnia: EC50 - Daphnia magna - 24.600 mg/l - 48 h (OECD 202)
Algae: EC50 - Pseudokirchneriella subcapitata - 17.000 mg/l - 72 h (OECD 201)
- **Log pOW:** -2,03
- **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.

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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.