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

- **Informations to product No. 4060**
- **Product name:**

Dexpanthenol, API
 Alcohol pantothenylicus, Dexpanthenolum

- **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:**

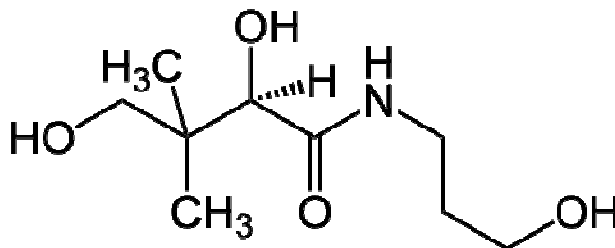
Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

- **Hazard classification:** The substance is not classified as dangerous according to European Union legislation.

3 Composition / information on ingredients

- **Chemical characterization:**




CAS-No. Substance name

81-13-0 Dexpanthenol

• **EINECS-No.:** 201-327-3

• **REACH Reg. No.:** 01-2119953737-24-0000

• **INCI-Name:** Panthenol

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4 First aid measures

- **After inhalation:** Not relevant.
- **After skin contact:** 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.

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

- **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.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** none

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:** Not required.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** highly viscous liquid
- **Colour:** colourless/clear
- **Odour:** odourless

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- **Melting point / melting range:** -25,0 °C (995 hPa; OECD 102)
- **Boiling point / boiling range:** 235,6 °C (995 hPa; OECD 103) (decomp.) 118 - 120 °C (0,027 hPa)
- **Flash point:** 150,5 °C
- **Density:** (20 °C) 1,2 g/cm³
- **Solubility in / Miscibility with**
- **Water:** > 509 g/l (22 °C; OECD 105)
- **pH-range:** (5%) 9,0 - 10,5
- **Viskosität, dynamisch:** (20 °C) > 200000 mPa.s; (100 °C) ca. 128 mPa.s
- **Refractory index:** (589 nm) 1,497 - 1,501

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Avoid strong heating.
- **Materials to avoid:** Strong oxidizers
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none.

11 Toxicological information


- **Acute toxicity:**
LD50 (oral, rat): ca. 21 000 mg/kg
LD50 (oral, mus): 15000 mg/kg
LD50 (dermal, rat): > 3500 mg/kg
- **Primary irritant effect:**
In eyes : Not irritant.
On skin: Not irritant.
- **Additional toxicological informations:**
In case of appropriate handling and usage the product does not cause harmful effects.

12 Ecological information

- **Aquatic toxicity:**
Fish: Oncorhynchus mykiss LC50 (96 h) > 1 000 mg/l (OECD 203)
Daphnia: Daphnia magna EC50 (48 h) > 100 mg/l (OECD 202)
Algae : Desmodesmus subspicatus EbC50 (72 h) > 100 mg/l (OECD 201) NOEC (72 h) 100 mg/l
Bacteria: Sludge NOEC 569 mg/l (OECD 302B)
Pseudomonas putida EC50 (17 h) > 10 000 mg/l (DIN 38412)
- **Information about elimination (persistence and degradability):**
Readily biodegradable: 97 % (21 d) (OECD 301 A)
- **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.

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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:** 11

- **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.