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

• **Informations to product No. 4185**

• **Product name:**

Cholinchlorid

Cholinii chloridum, Cholinum chloratum

• **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:

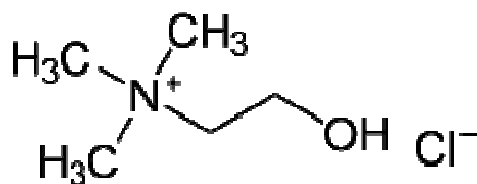
67-48-1 Cholinchloride

• **EINECS-No.:** 200-655-4

• **REACH Reg. No.:** 01-2119974137-31-0000

• **INCI-Name:** -


• **Chemical characterization:**



4 First aid measures

• **after inhalation:** Fresh air. If feeling unwell continuously seek medical advice.

• **after skin contact:** Wash away with plenty of water.

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- **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 dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage


- **Handling:** Hygroscopic. Keep container tightly closes.
- **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

- **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:** Not required.
- **Eye protection:** required

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** faint odour
- **Melting point / melting range:** 180 °C (decomposition)
- **Boiling point / boiling range:** not determined
- **Density:** not determined
- **Solubility in / Miscibility with**
- **Water:** readily soluble
- **pH-range:** (50 g/l, 20 °C) 3 - 4,4

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10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**

No decomposition during appropriate use.

- **Hazardous reactions:** No hazardous reactions known.

- **Hazardous decomposition products:** In case of fire: Chlorine and Hydrogen chloride.

11 Toxicological information

- **Acute toxicity:**

RTECS: **CAS# 67-48-1**: Oral, Mouse: LD50 = 3900 mg/kg;

LD50 = 3400 mg/kg;

- **Primary irritant effect:**

On skin: irritant

On eyes: irritant

- **Sensitization:** Not sensitizing

12 Ecological information

- **Aquatic toxicity:**

Quantitative ecotoxicological data for this product are not available.

Not acute harmful for water organisms.

- **Water hazard class:** 1 (VwVwS-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.

- **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 11

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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.