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

• **Informations to product No. 2082**

• **Product name:**

Thiaminchloridhydrochlorid Thiaini hydrochloridum, Aneurinum hydrochloricum

• **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:**

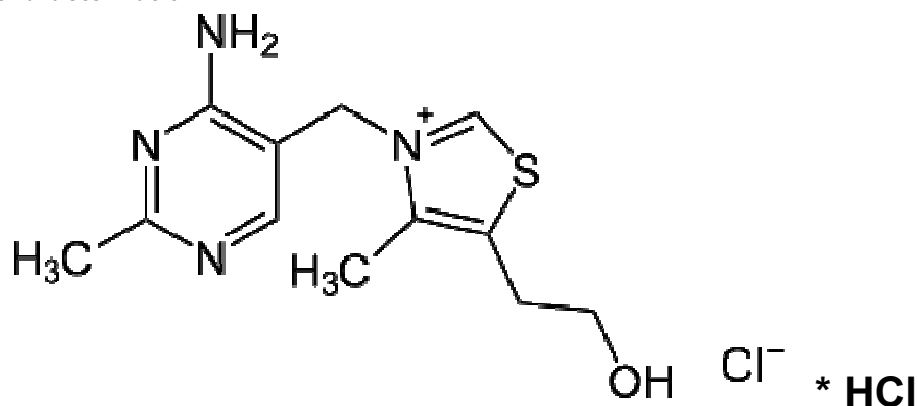
Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

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

67-03-8 Thiaminchlorid-hydrochlorid

• **EINECS-Nr.:** 200-641-8

• **REACH Reg. No.:** (pre-registered)

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• **INCI-Name:** Thiamine HCL

4 First aid measures

- **after inhalation:** Fresh air. If feeling unwell continuously seek medical advice.
- **after skin contact:** Wash away with plenty of 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 dust formation.
- **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:** Avoid dust formation.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Do not store in metal containers.
- **Advices on common storage:** Not required.

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 dusts are generated.
- **Hand protection:** Protection gloves
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** Crystalline powder
- **Colour:** white

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- **Odour:** characteristic
- **Melting point / melting range:** 248 °C (decomposition)
- **Boiling point / boiling range:** not determined
- **Ignition temperature:** > 365 °C
- **Density:** (20 °C) 0,4 g/cm³ (DIN 53 194)
- **Solubility in / Miscibility with**
- **Water:** (20 °C) > 500 g/l
- **pH-range:** (25 g/l, 20 °C) 2,7 – 3,3

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Avoid strong heating.
- **Materials to avoid:** Strong oxidants.
- **Hazardous decomposition products:** At high temperatures irritant or harmful vapours can be released.

11 Toxicological information


- **Acute toxicity:**
LD50 (oral, rat): 3710 mg/kg
LD50 (oral, mus): 13700 mg/kg
- **Primary irritant effect:**
- **on skin:** Slightly irritant.
- **on eyes:** Slightly irritant.
- **Additional toxicological informations:** Literatur: (only for Thiamine hydrochloride) Evaluations of the Health Aspects of Thiamin. Contract No. FDA 223-75-2004, 1978

12 Ecological information

- **Information about elimination (persistence and degradability):**
Readily biodegradable (74%, 7d)
- **Aquatic toxicity:**
Fishes: Oncorhynchus mykiss LC50 >100 mg/l/96h
Daphnia: Daphnia magna EC50 >100 mg/l/48h, EC0 58 mg/l/48h
Alges: Desmodesmus subspicatus EC50 >100 mg/l/72h
Bacteria: 1000 mg/l/7d no effect.
- **log p (O/W):** -3,93
- **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.

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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

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.