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

· **Informations to product No. 2267**

· **Product name:**

Hydrochlorothiazid, mikronisiert, API Hydrochlorothiazidum

· **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

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H - Phrases:**

H302 Harmful if swallowed.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 May cause an allergic skin reaction

· **P - Phrases:**

P301 IF SWALLOWED:

P311 Call a POISON CENTER or doctor/physician.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection

Acute Tox. 4

Resp. Sens. 1

Skin Sens. 1

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3 Composition / information on ingredients

CAS-No. Substance name

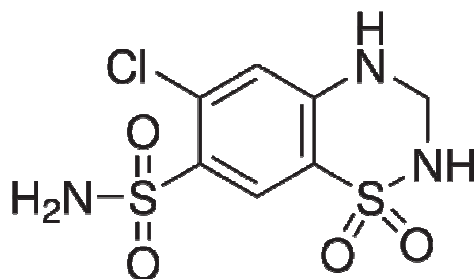
58-93-5 Hydrochlorothiazid

• **EINECS-No.:** 200-403-3

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

• **INCI-Name:** -

• **Chemical characterization:**



4 First aid measures


- **After inhalation:** Fresh air. Seek medical advice immediately.
- **After skin contact:** Wash away with water and soap. Seek medical advice.
- **After eye contact:** Rinse out with water.
- **After swallowing:** Do not induce vomiting. Rinse mouth with water. Seek medical advice. Show label or this MSDS.

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. In case of fire dangerous vapours/gases can be generated: sulfur oxides, nitrogen oxides.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **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:** wear personal protective equipment. Avoid dust formation. Avoid breathing dust. Good ventilation of working place. Keep away from ignition sources.
- **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.

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7 Handling and storage

- **Handling:**
- **Advice on safe handling:** The usual precaution measures during handling of chemicals are to observe.
- **Informations to fire or explosion protection:** Avoid generating dust and aerosols. Good ventilation if dust is generated. Keep away from ignition sources.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry, cool place.
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** none

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

The usual precaution measures during handling of chemicals are to observe. Keep away from foodstuffs, beverages and feed. Remove contaminated clothing immediately. Wash hands after work.

- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber or latex
- **Eye protection:** Safety glasses
- **Skin protection:** Protective clothing

9 Physical and chemical properties

- **Form:** solid, crystal powder
- **Colour:** white
- **Odour:** nearly odourless
- **Melting point / melting range:** 265 - 267 ° C
- **Boiling point / boiling range:** not determined
- **Flash point:** not determined
- **Explosion hazard:** The product is not explosive.
- **Density:** not determined
- **Vapour pressure:** not determined
- **Solubility in / Miscibility with**
- **Water:** 0,722 g/l
- **Acetone:** soluble
- **Ethanol:** not readily soluble

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Hazardous reactions:** Reactions with all strong oxidants
- **Hazardous decomposition products:** Sulfur oxides, Nitrogen oxides.

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11 Toxicological information

- **Acute toxicity:**

LD50: 2750 mg/kg (oral, rat)
578 mg/kg (i.p., mouse)
234 mg/kg (i.p., rat)
590 mg/kg (i.v., mouse)
990 mg/kg (i.v., rat)
461 mg/kg (i.v., rabbit)
1470 mg/kg (s.c., mouse)
1270 mg/kg (s.c., rat)

- **Potential health effects:**

- **on skin:** Can be harmful after absorption through skin. Can cause skin irritation.
- **on eyes:** Can cause eye irritation.
- **Sensitization:** Sensitization by inhalation or skin contact possible.
- **Signs and Symptoms of Exposure:** Nausea, dizziness, headache, vomiting, diarrhea, muscle cramps. The chemical, physical and toxicological properties have not been thoroughly investigated

12 Ecological information

- **Ecotoxicological effects:** no data available
- **Water hazard class (german regulation):** WGK 2 hazardous for water (List classification)
- **General notes:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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 is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS07, GHS08
- **Signal word:** Danger
- **H-Phrases:**

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• **National regulations (Germany):**

• **Water hazard class (german regulation):** WGK 2 hazardous for water (List classification)

• **Storage class TRGS510:** 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.