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

- **Informations to product No. 2484**
- **Product name:**

### **Natriumthiosulfat**

Natrii thiosulfas  
Sodium thiosulfate

- **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**

10102-17-7 Sodiumthiosulfat pentahydrate; 7772-98-7 Sodiumthiosulfat

- **EINECS-No.:** 231-867-5, 600-156-5
- **REACH Reg. No.:** 01-2119531537-38-0000
- **INCI-Name:** Sodium Thiosulfate

## 4 First aid measures

- **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:** Drink water. Induce vomiting. Seek 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:** Not combustible. In case of fire dangerous vapours/gases can be generated: Sulphur 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:** 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:** 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 ).

## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precautions during handling of chemicals are to observe.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** protection gloves of rubber or latex.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties

- **Form:** solid, clear crystals
- **Colour:** colourless
- **Odour:** odourless
- **Melting point / melting range:** 48,5 °C
- **Density:** (20 °C) 1,73 g/cm<sup>3</sup>  
Bulk density: ca. 1000 kg/cbm.
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 701 g/l
- **pH-range:** (50 g/l, 20 °C) 6,0 - 7,5

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Release of crystal water above 45°C.
- **Materials to avoid:** Oxidants (Explosion hazard with peroxides), acids
- **Hazardous reactions:** Reaction with acids releases sulphur oxides.
- **Hazardous decomposition products:** sulphur dioxide.

## 11 Toxicological information

- **Acute toxicity:**  
LD50 oral, rat: > 5000 mg/kg
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.

## 12 Ecological information

- **Aquatic toxicity:**  
Fishes: Pimephales promelas LC50: >10000 mg/l /96 h  
Gambusia affinis LC50: ca. 24.000 mg/l/96h  
Daphnia: Daphnia magna EC50: 1223 mg/l /48 h  
In case of appropriate handling and usage the product does not cause ecological problems.
- **log p(O/W):** - 4,53
- **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.

## 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:** 13

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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.