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

· **Informations to product No. 4170**

· **Product name:**

Chloramin T, Tosylchloramid-Natrium Tosylchloramidum natricum

· **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.

3 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H302 Harmful if swallowed

EUH031 Contact with acids liberates toxic gas

H314 Causes severe skin burns and eye damage

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

· **P-Phrases:**


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

P202 Do not handle until all safety precautions have been read and understood

Acute Tox. 4

Skin Corr. 1B

Resp. Sens. 1

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

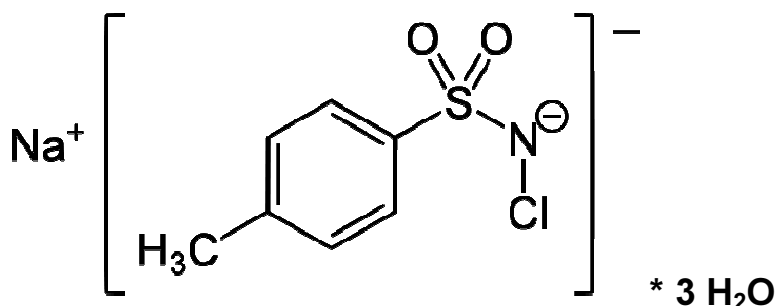
7080-50-4 Chloramin T, Tosylchloramide-Sodium, Trihydrate

• **EINECS-No.:** 204-854-7

• **Index-No.:** 616-010-00-9

• **REACH Reg. No.:** 01-2120772085-53-0000

• **INCI-Name:** Chloramine T



4 First aid measures


- **after inhalation:** Bring the person out of the contaminated area to fresh air, assure medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes, wash contaminated skin immediately with water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open, seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink plenty of water. Avoid vomiting (Danger of perforation!). Seek medical advice immediately.

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 gases / vapours can be released: Sulphur oxides, Chlorine. Explosive decomposition possible.
- **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.

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7 Handling and storage

- **Handling:**
- **Advice on safe handling:** work under exhaustion. Avoid inhalation of dust.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place at +8°C to +15°C.

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

No MAK-value available.

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

9 Physical and chemical properties


- **Form:** solid
- **Colour:** white – light yellow
- **Odour:** faint odour of chlorine
- **Melting point / melting range:** 167 - 170 °C
- **Boiling point / boiling range:** not applicable.
- **Flash point:** 192 °C c.c.
- **Bulk density:** 500 - 600 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 150 g/l
- **pH-range:** not determined

10 Stability and reactivity

- **Materials to avoid:** Strong reductants, oxidants and acids.
 - **Hazardous decomposition products:** Chlorine, Sulphur oxides, Amines or nitrogen oxides.
- Decomposition above 60°C.

11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
- LC50 (inhal., Rat): > 0,275 mg/l/15 min.
- LD50 (oral, Rat): ca. 1000 mg/kg
- **Primary irritant effect:**
- **on skin:** Burnings
- **on eyes:** Burnings, danger of blindness
- **on respiratory organs:** Burnings of mucous membranes after respiration of dust.
- **after swallowing:** Burnings. For esophagus and stomach danger of perforation.

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12 Ecological information

- **Information about elimination (persistence and degradability):**
Readily biodegradable.: 90% in 28 Days. Bioaccumulation not likely.
- **Aquatic toxicity:**
Toxic for fishes LC50 (Poecilia reticulata: 31 mg/l.
- **General advices:** Prevent from leaking into ground water, environment waters or drainage.
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations


- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or organic laboratory chemicals.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Corrosive solid, n.o.s., Chloramin T
- **Class:** 8
- **UN-number:** 1759
- **Packing group:** III
- **Classification code:** C10
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 80
- **Special provisions (Chapter 3.3 ADR):** 274
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-B
- **Properties:** -

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, GHS05, GHS08
- **Signal word:** Danger
- **H-Phrases:**
H302 Harmful if swallowed
EUH031 Contact with acids liberates toxic gas
H314 Causes severe skin burns and eye damage
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
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- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 8A

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.