

Page 1/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.08.2021

Version number 2.00

Revision: 09.08.2021

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

- · Product identifier
- · Trade name: Chloramine, Tosylchloramide sodium
- · Article number: 4170
- · CAS Number:
- 7080-50-4
- EC number:
- 615-172-8
- · Index number:
- 616-010-00-9
- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture
- Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · Uses advised against No relevant information available.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: CAELO
 Caesar & Loretz GmbH
 Herderstr. 31
 D-40721 Hilden
 GERMANY
- Further information obtainable from:
 E-mail: info@caelo.de
 Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number:
 Poison Information Center Bonn
 Venusberg-Campus 1, 53127 Bonn
- 2 Hazards identification

Tel: +49 (0) 228-192400

· Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1 H314 Causes severe skin burns and eye damage.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)



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· Hazard pictograms



· Signal word Danger

- · Hazard statements
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.

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

· Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P310 Immediately call a POISON CENTER/doctor.
- P321 Specific treatment (see on this label).
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• Additional information:

EUH031 Contact with acids liberates toxic gas.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Substances

- · CAS No. Description
- 7080-50-4 Chloramin T
- · Identification number(s)
- **EC number:** 615-172-8
- · Index number: 616-010-00-9

4 First aid measures

· Description of first aid measures

· After inhalation:

Bring the person out of the contaminated area to fresh air.

Call a doctor immediately. Show product-label or this MSDS. (Contd. of page 1)

Page 2/8



Page 3/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.08.2021

Version number 2.00

Revision: 09.08.2021

(Contd. of page 2)

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· After skin contact:

Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

After eye contact:

Rinse opened eye for several minutes under running water.

Seek medical advice, even if no immediate symptoms are observed.

After swallowing:

Rinse out mouth and then drink plenty of water.

- Call for a doctor immediately.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

· Extinguishing media

- · Suitable extinguishing agents:
- All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

· Special hazards arising from the substance or mixture

Combustible but not oxidising. In case of fire dangerous vapours/gases can be generated: Sulfur oxide (SxOy)

- Chlorine gas
- · Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Avoid contact with the substance. Environmental precautions: Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up:

- Take up dry. Clean up with water. Dispose contaminated material as waste according to item 13. • **Reference to other sections** See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- Precautions for safe handling

Thorough dedusting. Ensure good ventilation/exhaustion at the workplace.



Page 4/8

Safety data sheet

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Printing date 09.08.2021

Version number 2.00

Revision: 09.08.2021

(Contd. of page 3)

Trade name: Chloramine, Tosylchloramide sodium

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place at +8°C to +15°C.
- Information about storage in one common storage facility: Do not store together with acids.
- Further information about storage conditions: No further information
- Storage class: TRHS 510: 8A Combustible corrosive substances
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

- · Respiratory protection: Dust protection mask.
- · Protection of hands: Protective gloves
- Material of gloves Rubber gloves Nitrile rubber. NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Tightly sealed goggles
- · Body protection: Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance:

Form:	Solid
Colour:	Yellowish
· Odour:	Like chlorine
Odour threshold:	Not determined.
· pH-value:	Not applicable.



Page 5/8

Safety data sheet according to 1907/2006/EC, Article 31

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Version number 2.00

Revision: 09.08.2021

(Contd. of page 4)

Trade name: Chloramine, Tosylchloramide sodium

 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	167–170 °C 9: Undetermined.
· Flash point:	192 °C
· Flammability (solid, gas):	Product is not flammable.
 Decomposition temperature: 	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
 Bulk density: Relative density Vapour density Evaporation rate 	500–600 kg/m³ Not determined. Not applicable. Not applicable.
 Solubility in / Miscibility with water at 20 °C: 	150 g/l
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- · Thermal decomposition / conditions to be avoided: Decomposition above 60 °C.
- · Possibility of hazardous reactions Contact with acids releases toxic gases.
- · Conditions to avoid No further relevant information available.

· Incompatible materials: Acids Strong oxidizing agents Strong reducing agents

· Hazardous decomposition products: Chlorine Sulphur oxides (SOx) Nitrogen oxides (NOx)



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Revision: 09.08.2021

Trade name: Chloramine, Tosylchloramide sodium

(Contd. of page 5)

Page 6/8

11 Toxicological information

Information on toxicological effects

- · Acute toxicity
- Harmful if swallowed.

LD/LC50 values relevant for classification:

Oral LD50 1,000 mg/kg (rat)

Inhalative LC50 0.275 mg/m3 /15min (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation
- Causes severe skin burns and eye damage.
- Respiratory or skin sensitisation
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- Aquatic toxicity:
- LC50 31 mg/L (Fish)
- · Persistence and degradability Easily biodegradable
- · Behaviour in environmental systems:
- · Bioaccumulative potential Does not accumulate in organisms
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

(Contd. on page 7)



Safety data sheet

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Revision: 09.08.2021

Trade name: Chloramine, Tosylchloramide sodium

(Contd. of page 6)

Page 7/8

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to local regulations.

14 Transport information

14 Hansport mormation	
· UN-Number	
ADR, IMDG, IATA	UN3263
· UN proper shipping name	
· ADR · IMDG	1759 CORROSIVE SOLID, N.O.S. (Chloramin T) CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.
IMDG	(Chloramin T)
	Corrosive solid, basic, organic, n.o.s. (Chloramin T)
· Transport hazard class(es)	
· ADR, IMDG, IATA	
	8 Corrosive substances
· Label	8
· Packing group	
ADR, IMDG, IATA	11
Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-B
• Segregation groups	Alkalis
 Transport in bulk according to Annex II of Marpol and the IBC Code 	Netennicable
·	Not applicable.
 Transport/Additional information: 	
ADR	
 Limited quantities (LQ) 	1 kg
Transport category	2
 Tunnel restriction code 	E
·IMDG	
 Limited quantities (LQ) 	1 kg

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed

· REGULATION (EC) No 1907/2006 ANNEX XVII Not listed

(Contd. on page 8)



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Trade name: Chloramine, Tosylchloramide sodium

(Contd. of page 7)

GB -

Page 8/8

- · National regulations:
- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 8A Combustible corrosive substances
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- · Reasons for alterations This version replaces all old versions.
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1: Skin corrosion/irritation – Category 1

Resp. Sens. 1: Respiratory sensitisation - Category 1

** Data compared to the previous version altered.