

CHLORAMINE-T (Trihydrate), AR GRADE

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: CHLORAMINE-T (Trihydrate), AR GRADE

Product Code: 183

CAS#: 7080-50-4

Synonym: *N*-Chloro-*p*-toluenesulfonamide sodium salt

Chemical Name: Not available

Chemical Formula: $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCINa} \cdot 3\text{H}_2\text{O}$

Formula Weight: 281.69

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:

Name: CHLORAMINE-T (Trihydrate)

Synonyms: $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCINa} \cdot 3\text{H}_2\text{O}$

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Sub-category 1B), H314

Serious eye damage (Category 1), H318 Respiratory sensitization (Category 1), H334

Label elements

Labelling according Regulation (EC) No 1272/2008

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

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

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

SECTION 4: FIRST AID MEASURES

Description of first-aid measures

General advice: First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled: After inhalation: fresh air Call in physician

In case of skin contact: In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call in physician

In case of eye contact: After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses. After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses

If swallowed: After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment



Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NO_x), Sulfur oxides. Hydrogen chloride gas Sodium oxides Not combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense

Advice for fire-fighters: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions Do not let product enter drains.

Methods and materials for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Work under hood. Do not inhale substance/mixture.

Hygiene measures: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed. Dry. Keep locked up or in an area accessible only to qualified or authorized persons. Do not store near acids. Store under inert gas. Air sensitive.

Storage class Storage class (TRGS 510): 8A: Combustible, corrosive hazardous material

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles.

Skin protection: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Body Protection: Complete suit protecting against chemicals,

Respiratory Protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system

Control of environmental exposure: Do not let product enter drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	: White to slightly yellow crystals or powder
Colour	: Not available
Odour	: Not available
Odour Threshold	: Not available
pH	: 8.0 – 10.0
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: Not available
Flash point	: Not available



Evaporation rate	: Not available
Flammability (solid, gas)	: Not available
Upper/lower flammability or explosive limits	: Not available
Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: Not available
Water solubility	: Not available
Auto-ignition temperature	: Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. Contact with acids liberates toxic gas

Chemical stability: The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions: Generates dangerous gases or fumes in contact with: Acids

Violent reactions possible with: Strong oxidizing agents

Generates dangerous gases or fumes in contact with: Acids

Conditions to avoid: Strong heating

Incompatible materials: No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: LD50 Oral - Rat - male and female - 935 mg/kg (OECD Test Guideline 401)

Skin corrosion/irritation: Skin - Rabbit Result: Causes burns. - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - Rabbit Result: Causes serious eye damage. - 72 h (OECD Test Guideline 405)

Respiratory or skin sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled

Germ cell mutagenicity: Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation

Specific target organ toxicity - repeated exposure: No data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 100 mg/l - 96 h (US-EPA)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 4,5 mg/l - 48 h

Persistence and degradability: Biodegradability aerobic - Exposure time 28 d Result: 92 % - Readily biodegradable

Bioaccumulative potential: Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 1 h at 11,8 °C - 20 mg/l(Chloramine-T trihydrate) Bioconcentration factor (BCF): 2,2

Mobility in soil: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14: TRANSPORT INFORMATION

UN number:



ADR/RID: 3263	IMDG: 3263	IATA: 3263
UN proper shipping name		
ADR/RID: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Chloramine-T trihydrate)		
IMDG: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Chloramine-T trihydrate)		
IATA: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Chloramine-T trihydrate)		
Transport hazard class(es):		
ADR/RID: 8	IMDG: 8	IATA: 8
Packaging group:		
ADR/RID: II	IMDG: II	IATA: II
Environmental hazards:		
ADR/RID: No	IMDG Marine pollutant: No	IATA: No

SECTION 15: OTHER REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements

EUH031 Contact with acids liberates toxic gas.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage.

H334 Harmful if swallowed.

Other Special Considerations: Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.

