



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Chloramine T
CAS-No. : 127-65-1
Synonym: Chloramine-T Trihydrate; N-Chloro-P-Toluenesulfonamide Sodium Salt
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : $C_7H_8ClNNaO_2S$

CAS-No.	EC-No.	Index-No.	Concentration
Chloramine T 127-65-1	204-854-7		>99%

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

4. FIRST AID MEASURES

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical

attention.

Inhalation:

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion:

Not available.

5. FIRE-FIGHTING MEASURES

Flammability of the Product:

May be combustible at high temperature.

Auto-Ignition Temperature:

Not available.

Flash Points:

Not available.

Flammable Limits:

Not available.

Products of Combustion:

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...), halogenated compounds. Some metallic oxides.

Fire Hazards in Presence of Various Substances:

Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:

Not available.

Special Remarks on Explosion Hazards:

Not available.

6. ACCIDENTAL RELEASE MEASURES

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. HANDLING AND STORAGE

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance:	Solid.
Odor:	Not available.
Taste:	Not available.
Molecular Weight:	281.69 g/mole
Color:	Not available.
pH (1% soln/water):	Not available.
Boiling Point:	Not available.
Melting Point:	Decomposes.
Critical Temperature:	Not available.
Specific Gravity:	Not available.
Vapor Pressure:	Not applicable.
Vapor Density:	Not available.
Volatility:	Not available.
Odor Threshold:	Not available.
Water/Oil Dist. Coeff.:	Not available.
Ionicity (in Water):	Not available.
Dispersion Properties:	See solubility in water.
Solubility:	Soluble in cold water.

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Instability Temperature:	Not available.
Conditions of Instability:	Not available.
Incompatibility with various substances:	Not available.
Corrosivity:	Non-corrosive in presence of glass.
Special Remarks on Reactivity:	Not available.
Special Remarks on Corrosivity:	Not available.
Polymerization:	No.

11. TOXICOLOGICAL INFORMATION

Routes of Entry:

Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans:

The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation:

The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation:

Not available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: In its unused condition, this product is not considered to be a RCRA defined hazardous waste by characteristics or listings. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristic or listing. Dispose in accordance with all local, state and federal regulations.

Container Disposal: Containers should be cleaned of residual product before disposal or return. Since emptied containers retain product residue, follow label warnings even after container is emptied. Empty containers should be disposed of or shipped in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class 8 ADR Classification Code C8

RID class	8	ADR/RID packing group	III
Hazard Identification No.	80	Substance Identification No.	3263
TREM-Card	CEFIC TEC(R)- 80GC8-II+III	UN number	3263
Proper Shipping Name	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Sodium p-toluenesulfonylchloramide)		

Sea transport (IMDG-code/ IMO)

IMO/IMDG code		Class	8
Packing group	III	UN number	3263
EMS	F-A, S-B	Subsidiary	Risk
Marine pollutant	no		
Proper Shipping Name	Corrosive solid, basic, organic, n.o.s. (Sodium p-toluenesulfonylchloramide)		

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR		UN number	3263
Class	8	Packing group	III
Proper Shipping Name	Corrosive solid, basic, organic, n.o.s. (Sodium p-toluenesulfonylchloramide)		

15. REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Chloramin-T
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects
(VERY TOXIC). DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS (U.S.A.):

Health Hazard:	2
Fire Hazard:	1
Reactivity:	0
Personal Protection:	E

National Fire Protection Association (U.S.A.):

Health:	2
Flammability:	1
Reactivity:	0
Specific hazard:	

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

16. OTHER INFORMATION

Further information

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