

# Safety Data Sheet

## 1. IDENTIFICATION:

**Product Name:** CHLORAMINE-T  
**Synonyms:** N-chloro-p-toluenesulfonamide, sodium salt; Tosylchloramide sodium  
**CAS Number:** 7080-50-4  
**Catalog Numbers:** 10170 10171 W2T8468 W2T8469 AAC6431 AAC6434  
**Product Use:** Analytical / Laboratory Reagent  
**Manufacturer:** HF Scientific, Inc  
**Address:** 3170 Metro Parkway Fort Myers, FL 33916

**General Information:** 888-203-7248  
**Transportation Emergency Number:** CHEMTREC® 24 hr US 800-424-9300  
 CHEMTREC® 24 hr International 703-527-3887

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Health	Environmental	Physical
Acute toxicity: Category 4 Skin irritation: Category 1 Eye irritation: Category 1 Respiratory sensitizer: Category 1B Specific target organ toxicity following repeated exposure: Category 2	Aquatic toxicity: Category 2	Flammable: No

### GHS Label

Pictogram:	Signal Word:
	<b>WARNING</b> <b>DANGER</b>
Hazard Statements:	Precautionary Statements
Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes severe skin burns and eye damage Causes serious eye damage May cause allergy or asthmatic symptoms or breathing difficulties if inhaled May cause damage to genetic material and blood	IF SWALLOWED Do NOT induce vomiting unless directed to do so by medical personnel. Call a physician immediately. IF ON SKIN immediately flush skin with plenty of water. Cover the irritated skin with emollient. Get medical attention. IF INHALED remove to fresh air. If not breathing, give artificial respiration, If breathing is difficult, give oxygen. Get medical attention. IF IN EYES check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. STORE in a well-ventilated place DISPOSE of contents/container in accordance with local/regional/national/international regulations. Toxic to aquatic life

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Cas Number	Weight %
Chloramine-T	7080-50-4	100%

## 4. FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.  
**Skin Contact:** Immediately flush skin with plenty of water. Cover the irritated skin with emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.  
**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration, If breathing is difficult, give oxygen. Get medical attention.  
**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call physician immediately. Loosen tight clothing such as collar, tie, belt or waistband.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Dry chemical, carbon dioxide or chemical foam.  
**Fire Fighting Procedures:** Wear self-contained respirator and fully protective impervious suit  
**Unusual Fire and Exposure Hazards:** N/A  
**Combustion Products:** Carbon oxides, nitrogen oxides, sulfur oxides, halogenated compounds and some metallic oxides.  
**NFPA Classification** HEALTH: 3 FLAMMABLE: 1 REACTIVITY: 1

## 6. ACCIDENTAL RELEASE MEASURES

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.

## 7. HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Acids should not be used around this material unless absolutely necessary and then only after careful planning.  
**Storage:** Store in a cool, dry, well-ventilated place. Store in a tightly closed container. Corrosive area. Keep away from acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** N/A  
**Engineering Controls:** Use only under a chemical hood  
**Personal Protective Equipment:**  
**Eyes:** Safety glasses or splash goggles recommended  
**Skin:** Latex or nitrile gloves recommended  
**Respiratory:** Dust respirator

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Flashpoint:** 192°C – closed cup  
**Autoignition Temperature:** N/A  
**Boiling Point:** N/A  
**Melting Point:** 170°C  
**% Solubility in Water:** Soluble in cold water  
**Molecular Formula:** C<sub>7</sub>H<sub>7</sub>ClNNaO<sub>2</sub>S•3H<sub>2</sub>O  
**Odor / Appearance:** White to off-white crystalline powder  
**pH:** 8.0 – 10.0 50 g/L @ 20°C  
**Molecular Weight:** 281.69 g/mol

## 10. STABILITY AND REACTIVITY

**Stability / Incompatibility:** Stable under normal conditions. Avoid contact with acid, air, excess heat and temperatures above 130°C. Incompatible with strong oxidizing agents and acids.  
**Hazardous Reactions / Decomposition Products:** Hydrogen chloride, chlorine, carbon monoxide, oxides of nitrogen, oxides of sulfur, carbon dioxide. Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Symptoms of Overexposure:** Causes burns by all exposure routes. Harmful if swallowed. May cause allergic respiratory reaction.  
**Acute Effects:** Causes burns by all exposure routes. Harmful if swallowed. May cause allergic respiratory reaction.  
**Eye Contact:** Eye burns  
**Skin Contact:** Skin burns  
**Inhalation:** Allergic respiratory reaction, Chemical burns to the respiratory tract.  
**Ingestion:** Burns to the gastrointestinal tract.  
**Target Organs Effects:** Genetic material and blood  
**Chronic Effects:** Repeated exposure can result in mutagenic effects. May cause methemoglobinemia, an increase of methemoglobin in the blood resulting in deficient oxygenation of the blood.  
**Medical Conditions Aggravated by Exposure:** Pre-existence skin, eyes, gastrointestinal and respiratory conditions.  
**Acute Toxicity Values:** N/A

## 12. ECOLOGICAL INFORMATION

**Environmental Fate:** No information found.  
**Environmental Toxicity:** Toxic to fish and aquatic organisms

## 13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Local, State, and Federal Regulations.

## 14. TRANSPORT INFORMATION

**US DOT (United States Department of Transportation):** UN number: 3263 Class: 8 Packing group: III Proper shipping name: Corrosive solid, basic, organic, n.o.s. (Chloramine T trihydrate)  
**IATA (International Air Transport Association):** UN number: 3263 Class: 8 Packing group: III Proper shipping name: Corrosive solid, basic, organic, n.o.s. (Chloramine T trihydrate)

## 15. REGULATORY INFORMATION

**WHMIS:** D-2A material causing other toxic effects (very toxic) & D-2B Material causing other toxic effect (Toxic)  
**DSL:** Yes  
**NDSL:** No

## 16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

Instructions on using Chloramine-T Powder:

To 1 gallon of pH 4 buffer solution, add the contents of the indicated number of vials below and mix until fully dissolved.

<b>RANGE</b>	<b>PACKAGE #</b>	<b>ADD # VIALS</b>
+/-0.5 mg/L	AAC6431	1
+/-1.0 mg/L	AAC6431	2
+/-2.5 mg/L	AAC6434	1
+/-5.0 mg/L	AAC6434	2
+/-10.0 mg/L	AAC6434	4

Allow proper time for new reagent(s) to travel through tubing and recalibrate unit in compliance with instruction manual.

