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# SAFETY DATA SHEET

**Creation Date 03-July-2015** **Revision Number 1**

## 1. Identification

**Product Name** **Chloramine-T trihydrate, Hydrochlor**
**Cat No. :** **O1779-250**
**Synonyms** N-Chloro-p-toluenesulfonamide, sodium salt; Tosylchloramide sodium
**Recommended Use** Fungicide and Disinfectant
**Uses advised against** No Information available

**Details of the supplier of the safety data sheet**

**Company** **Jinxi Yunxiang Pharmaceutical Co.,Ltd.**
Area C,Industrial Park,Jinxi County,Jiangxi Province,China
**Emergency Telephone Number**
+86-573-8399-2183

## 2. Hazard(s) identification

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|---|---|
| Acute oral toxicity | Category 4 |
| Skin Corrosion/irritation | Category 1 B |
| Serious Eye Damage/Eye Irritation | Category 1 |
| Respiratory Sensitization | Category 1 |

**Label Elements**

**Signal Word**
Danger

**Hazard Statements**
Harmful if swallowed
Causes severe skin burns and eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Precautionary Statements**

**Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

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

In case of inadequate ventilation wear respiratory protection

**Response**

Immediately call a POISON CENTER or doctor/physician

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

**Eyes**

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

**Ingestion**

Rinse mouth

Do NOT induce vomiting

**Storage**

Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Contact with acids liberates toxic gas

3. Composition / information on ingredient

| **3.Composition/ information on ingredients** |
|---|

| **Component** | **CAS-NO** | **Weight %** |
|---|---|---|
| Chloramine-T trihydrate | 7080-50-4 | ＞95 |
| Chloramine-T | 127-65-1 | - |

## 4.First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Immediate medical attention is required. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

**Most important symptoms/effects** Causes burns by all exposure routes. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

**Notes to Physician** Treat symptomatically

## 5.Fire-fighting measures

**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam

**Unsuitable Extinguishing Media** No information available

**Flash Point** 192 °C / 377.6 °F

**Method -** No information available

**Autoignition Temperature** Not applicable

**Explosion Limits**

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors Hydrogen chloride gas Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO 2) Chlorine Sulfur oxides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

| Health | Flammability | Instability | Physical hazards |
|---|---|---|---|
| 3 | 0 | 1 | N/A |

## 6.Accidental release measures

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and inhalation of vapors. Keep people away from and upwind of spill/leak. Avoid contact with acids.

**Environmental Precautions** See Section 12 for additional ecological Information.

**Methods for Containment and Clean up**

Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

## 7.Handing and storage

**Handling** Wear personal protective equipment. Use only under a chemical fume hood. Do not Breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation.

**Storage** Keep container tightly closed. Keep in a dry, cool and well-ventilated place. Corrosives area. store under an inert atmosphere.

## 8.Explosure controls/personal protection

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Engineering Measures** Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protective Equipment**

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9.Physical and chemical properties

| | |
|---|---|
| **Physical State** | Powder Solid |
| **Appearance** | Off-white |
| **Odor** | slight chlorine |
| **Odor Threshold** | No information available |

| | |
|---|---|
| **pH** | 8-10 5% aq.sol |
| **Melting Point/Range** | 170 - 177 °C / 338 - 350.6 °F |
| **Boiling Point/Range** | No information available |
| **Flash Point** | 192 °C / 377.6 °F |
| **Evaporation Rate** | Not applicable |
| **Flammability (solid,gas)** | No information available |
| **Flammability or explosive limits** | |
| **Upper** | No data available |
| **Lower** | No data available |
| **Vapor Pressure** | No information available |
| **Vapor Density** | Not applicable |
| **Relative Density** | No information available |
| **Solubility** | No information available |
| **Partition coefficient;** | n-octanol/water No data available |
| **Autoignition Temperature** | Not applicable |
| **Decomposition temperature** | No information available |
| **Viscosity** | Not applicable |
| **Molecular Formula** | C7H7ClNNaO2S.3H2O |
| **Molecular Weight** | 281.69 |

## 10.Stability and reactivity

| | |
|---|---|
| **Reactive Hazard** | Yes |
| **Stability** | Air sensitive. |
| **Conditions to Avoid** | Exposure to air. Incompatible products. Temperatures above130°C.Incompatible Materials Acids, Strong oxidizing agents |
| **Hazardous Decomposition** | Products Thermal decomposition can lead to release of irritating gases and vapors, Hydrogen chloride gas, Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO 2),Chlorine, Sulfur oxides |
| **Hazardous Polymerization** | Hazardous polymerization does not occur. |
| **Hazardous Reactions** | Contact with acids liberates toxic gas. |

## 11. Toxicological information

**Acute Toxicity**

**Product Information**

**Component Information**

| Component | Cas-No | IARC | NTP | ACGIH | OSHA | Mexico |
|---|---|---|---|---|---|---|
| Chloramine-T thihydrate | 7080-50-4 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Chloramine-T | 127-65-1 | Not listed | Not listed | Not listed | Not listed | Not listed |

| | |
|---|---|
| **Mutagenic Effects** | Not mutagenic in AMES Test |
| **Reproductive Effects** | No information available. |
| **Developmental Effects** | No information available. |
| **Teratogenicity** | No information available. |
| **STOT - single exposure** | None known |
| **STOT - repeated exposure** | None known |
| **Aspiration hazard** | No information available |
| **Symptoms / effects, both acute and delayed** | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing |
| **Endocrine Disruptor** | Information No information available |
| **Other Adverse Effects** | The toxicological properties have not been fully investigated. |

## 12.Ecological information

**Ecotoxicity**

Do not empty into drains.

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|---|---|---|---|---|
| Chloramine-T | 80mg/lL EC50=144h | 1.63-2.19mg/L LC50 96 h<br>31mg/L LC50 96 h<br>20.2-26.2mg/L LC50 96 h<br>6.52-7.51mg/L LC50 96 h | Not listed | 4.5mg/L EC50=48 h |

| | |
|---|---|
| **Persistence and Degradability** | Soluble in water Persistence is unlikely based on information available. |
| **Bioaccumulation/ Accumulation** | No information available. |
| **Mobility** | Will likely be mobile in the environment due to its water solubility. |

## 13.Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14.Transport information

**DOT**

| | |
|---|---|
| **UN-No** | UN3263 |
| **Proper Shipping Name** | CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. |
| **Proper technical name** | (CHLORAMINE T TRIHYDRATE) |
| **Hazard Class** | 8 |

**Packing Group** III

**TDG**

**UN-No** UN3263

**Proper Shipping Name** CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

**Hazard Class** 8

**Packing Group** III

**IATA**

**UN-No** UN3263

**Proper Shipping Name** CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

**Hazard Class** 8

**Packing Group** III

**IMDG/IMO**

**UN-No** UN3263

**Proper Shipping Name** CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

**Hazard Class** 8

**Packing Group** III

## 15.Regulatory information

**International Inventories**

| Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloramine-T trihydrate | _ | _ | _ | _ | _ | | X | _ | _ | X | _ |
| Chloramine-T | X | X | - | 204-854-7 | - | | X | X | X | X | X |

**Legend:**

**X - Listed**

**E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.**

**F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.**

**N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated**

**polymer made with any free-radical initiator regardless of the amount used.**

**P - Indicates a commenced PMN substance**

**R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.**

**S - Indicates a substance that is identified in a proposed or final Significant New Use Rule**

**T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.**

**XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base**

**Production and Site Reports (40 CFR 710(B).**

**Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.**

**Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.**

**U.S. Federal Regulations**

**TSCA 12(b)** Not applicable

**SARA 313** Not applicable

**SARA 311/312 Hazardous Categorization**

**Acute Heath Hazard** Yes

**Chronic Health Hazard** No

**Fire Hazard** No

**Sudden Release of Pressure Hazard** No

**Reactive Hazard** Yes

**Clean Water Act** Not applicable

**Clean Air Act** Not applicable

**OSHA Occupational** Safety and Health Administration

Not applicable

**CERCLA**

Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals

**State Right-to-Know** Not applicable

**U.S. Department of Transportation**

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico - Grade** No information available

**Canada**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR**

**WHMIS Hazard Class** D1B Toxic materials
E Corrosive material
D2B Toxic materials
F Dangerously reactive material

## 16.Other information

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**Creation Date** 03-July-2015

**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to

be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

END of SDS