

M A T E R I A L S A F E T Y D A T A S H E E T

Chloramine T

Section 1. - - - - - Company Identification - - - - -

Company Name:Gree Industry Co.,Ltd

Add.: Linhai Economic Development Zone 250100 Shandong China**Contact**

TEL:+86-531-88755607

FAX:+86-531-88755607

Section 2. - - - - - Chemical Identification - - - - -

Product Name: Chloramine T

CAS NO:127-65-1

Synonyms: SODIUM P-TOLUENESULFONCHLORAMIDE,

Commodity Name: halamid,drums 25/600

Chemical Family: Organic salt

INCI name: Chloramine T

Section 3. - - - - - Hazards Identification - - - - -

Inhaled: Irritating to mucous membranes. Severity of effects depends on concentration of dust or mist, and duration of exposure. May be absorbed through lungs, causing systemic poisoning with headache, fall in blood pressure, the formation of methemoglobin which decreases the ability of the blood to carry oxygen, causing cyanosis, possible convulsions, coma.Onset may be delayed 2 to 4 hours or longer. Severe overexposure can be fatal. May cause allergic respiratory reaction.

In contact with skin: No human or confirmed animal information available. Dust or solutions may cause irritation with redness and pain. Concentrated solutions may be corrosive, causing inflammation, blistering, skin damage and possible permanent scarring. May cause allergic reaction.

In contact with eyes: No human information available. Animal testing indicates can cause severe eye irritation, with redness, pain and possible irreversible corrosive eye damage.

Ingested: Irritating to gastrointestinal tract. Large oral doses may cause dizziness, abdominal pain, vomiting.

Section 4. - - - - - First-Aid Measures- - - - -

Eyes: Flush thoroughly with gently running water for at least twenty (20) minutes, holding eyelids open while flushing. Take care not to flush contaminated water into unaffected eye. Wear protective gloves to prevent contact during first aid procedures. Get medical attention.

Skin: Remove contaminated clothing, including watches, rings, belts, and shoes. Wear goves to prevent contact. Drench skin with plenty of running

water for at least fifteen(15) minutes. Get medical attention. Decontaminate clothing before reuse, or discard.

Inhalation: Immediately remove to fresh air. Give oxygen or get medical attention for any breathing difficulty. If breathing has stopped begin artificial respiration immediately. Onset of symptoms may be delayed; if victim feels unwell during the next 24 hours, get medical attention immediately.

Ingestion: If victim is alert and not convulsing, rinse mouth thoroughly with water, give 2 to 4 glasses of water to drink to dilute, and induce vomiting by sticking a finger down the throat, or by giving syrup of ipecac. GET MEDICAL ATTENTION. If spontaneous vomiting occurs, rinse mouth thoroughly with water, and give 2 to 4 more glasses of water to drink. Onset of symptoms may be delayed; if victim feels unwell during the next 24 hours, get medical attention immediately.

Section 5. - - - - - Fire Fighting Measures - - - - -

Flammability: May be combustible if strongly heated. As with most organic compounds, fine dust dispersed in air in the presence of an ignition source is a potential dust explosion hazard.

Extinguishing Media: Use extinguishing media appropriate to the surrounding fire. Use water as spray or fog to minimize dust, absorb heat, cool containers, and disperse vapours. Fight fire from upwind, from a safe distance. Firefighters should wear protective equipment and clothing sufficient to prevent inhalation of dust or fumes, and contact with skin and eyes.

Flash Point (Method Used): 192°C (CC)

Autoignition Temperature: Not applicable

Upper Flammable Limit (% by volume): Not applicable

Lower Flammable Limit (% by volume): Not applicable

Hazardous Combustion Products: CO_x, NO_x, SO_x, hydrogen chloride gas

Sensitivity to Impact: None identified

Sensitivity to Static discharge: As with most organic powders, mixtures of dust with air may be sensitive under certain conditions, when ignited by an electrostatic or other high-voltage spark, or other ignition source.

Section 6. - - - - - Accidental Release Measures- - - - -

Spill Procedure and Leak: Restrict access to area of spill. Eliminate all sources of ignition and combustible materials. Cleanup personnel must be thoroughly trained in the hazards of this chemical and its safe use, and must wear protective equipment and clothing sufficient to prevent inhalation of dust or fumes, and contact with skin and eyes. Wet if necessary to avoid generating dust. Prevent from entering sewers and waterways. Contain spill with inert material (earth, sand, inert absorbent). Use non-sparking tools to collect material, in suitable, labelled, covered containers for disposal. Contaminated absorbent may pose the same hazards as the chemical; treat with caution. Flush area of spill with large amounts of running water.

Section 7. - - - - - Handling And Storage- - - - -

Handling Procedures and Equipment: IRRITANT. Workers handling this product must be thoroughly trained in its hazards and its safe use, and must wear appropriate protective equipment and clothing. Follow routine safe handling procedures. Use the smallest amount possible for the purpose, in a designated area with appropriate ventilation. Avoid generating dust. Avoid contact and inhalation. Use good housekeeping practices to prevent accumulations of dust. Keep away from all incompatible materials (see "Incompatibility with other substances". Keep containers closed when not in use and when empty. Empty containers may contain hazardous residues; treat with caution. Wash thoroughly after working with this product.

Storage Requirements: Store in suitable, labelled containers, in a cool, dry, well-ventilated area, out of direct sunlight. Store away from incompatible materials. Keep containers tightly closed when not in use and when empty. Protect from exposure to air and moisture. Protect from damage, and inspect frequently for signs of leaking.

Section 8. - - - - - Exposure Controls/Personal Protection- - - - -

Engineering Controls: Local corrosion-resistant exhaust ventilation required.

Respiratory Protection: Dust mask. NIOSH-approved half-face dust/mist respirator for dusty conditions. For high or unknown concentrations, as in fire or spill conditions, positive-pressure, full face-piece self-contained breathing apparatus, or positive-pressure, full face-piece supplied-air respirator with auxiliary positive-pressure self-contained breathing apparatus.

Eye Protection: Chemical safety goggles

Skin Protection: Rubber gloves. Other impervious protective clothing, sleeves, coveralls, boots sufficient to prevent contact.

Other Personal Protective Equipment: An eyewash and safety shower should be nearby and ready for use.

Section 9. - - - - - Physical And Chemical Properties - - - - -

Chemical Name: Chloramine-T, (N-Chloro-p-toluenesulfonamide),

Synonyms: Sodium salt

Chemical Family: Organic salt

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

Chemical Family: Organic salt

INCI name: Chloramine T

PHYSICAL DATA

Physical State: Solid

Odour and Appearance: White to yellow crystalline powder, weak chlorine odour

Odour Threshold (ppm): Not available

Vapour Pressure (mm Hg): Not available

Vapour Density (Air = 1): 0.60
Evaporation Rate: Not available
Boiling Point (degrees C): Not available.
Melting Point (degrees C): 167-170°C
pH: 8-10 (5% aqueous solution)
Specific Gravity: 1.43
Coefficient of Water/Oil distribution: Not available

Section 10. - - - - - Stability And Reactivity - - - - -

Chemical Stability: Stable under normal conditions. Decomposes slowly on exposure to air, especially humid or acid conditions. Yields chlorine in solution or on heating. May decompose violently above 130°C.

Incompatibility with other substances: Water, acids, strong oxidizing agents, ammonia, ammonium salts. Has been reported explosive after esotropic distillation of total water content.

Reactivity: Avoid excessive heat, all ignition sources, generation of dust, all incompatible materials.

Hazardous Decomposition Products: Cl₂, CO_x, nitrogen compounds, sulphur compounds

Section 11. - - - - - Toxicological Information - - - - -

CAS#: 127-65-1 unlisted.

LD50/LC50: Not available.

Carcinogenicity:

Epidemiology: No information found.

Teratogenicity: No information found.

Reproductive Effects: No information found.

Mutagenicity: No information found.

Neurotoxicity: No information found.

Other Studies

Section 12. - - - - - Ecological Information - - - - -

No information available.

Section 13. - - - - - Disposal Considerations - - - - -

Waste Disposal: Follow all federal, provincial and local regulations for disposal.

Section 14. - - - - - Transport Information - - - - -

Shipping Description:

UN: 3263

T.D.G. Class: Class 8

Pkg. Group: II

Section 15. - - - - - Regulatory Information - - - - -

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS#127-65-1 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Risk Phrases:

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 34 Causes burns.

R 42 May cause sensitization by inhalation.

Safety Phrases:

S 22 Do not breathe dust.

S 26 In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

Section 16. - - - - - Other Information - - - - -

MSDS Creation Date: 3/1/2010

The information above is believed to be accurate and represents the best information currently available to us.

However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall RunYang be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Runyang has been advised of the possibility of such damages.