Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Chloramine T trihydrate
Product Number: 402899
Brand: Sigma-Aldrich
Supplier: Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone: +1 800-325-5832
Fax: +1 800-325-5052
Emergency Phone # (For both supplier and manufacturer): (314) 776-6556
Preparation Information: Sigma-Aldrich Corporation
Product Safety - Americas Region
1-800-521-8558

2. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Target Organ Effect: Harmful by ingestion, Respiratory sensitiser, Corrosive
Target Organs: Blood, Lungs
GHS Classification
Acute toxicity, Oral (Category 4)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)
Respiratory sensitization (Category 1)
GHS Label elements, including precautionary statements
Pictogram: Danger
Signal word: Danger
Hazard statement(s): Harmful if swallowed.
H302
H314
May cause respiratory or eye symptoms or breathing difficulties if inhaled.
H335
Precautionary statement(s): Do not breathe dust or mist.
P260
Do not eat, drink or smoke when using this product.
P264
Wear protective gloves/ protective clothing/ eye protection/ face protection.
P265
In case of inadequate ventilation wear respiratory protection.
P301 + P330 + P312
IF SWALLOWED: Call a Poison Center or doctor/ physician if you feel unwell.
P301
P303 + P330 + P331
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P332 + P333
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing, Rinse

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: N-Chloro-p-toluenesulfonamidesodium salt
Formula: C14H13ClN3O5S3 · 3HgO
Molecular Weight: 281.59 g/mol
Component | Concentration
--- | ---
Chloramine T trihydrate | 7080-59-4
EC-No. | 204-854-7
Index-No. | 616-010-00-9

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Condition of flammability
Sigma-Aldrich 402899
Delivery 0814248754-000018 Purchase Order 88289
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9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>powder</td>
</tr>
<tr>
<td>Colour</td>
<td>off-white</td>
</tr>
<tr>
<td>pH</td>
<td>8.0 - 10.0 at 50 g/l at 20 °C (68 °F)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Melting point range: 167 - 179 °C (333 - 338 °F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>192 °C (378 °F) - closed cup</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Density</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative volatility</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions: no data available
- Conditions to avoid: no data available
- Materials to avoid: Do not store near acids, strong oxidizing agents, Ammonia
- Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas, Sodium oxides
- Other decomposition products: no data available

11. TOXICOLOGICAL INFORMATION

- Acute toxicity:
  - Oral LD50: no data available
  - Inhalation LC50: no data available
12. ECOLOGICAL INFORMATION

Toxicity
no data available
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
PBT and vPvB assessment
no data available
Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3263   Class: 6   Packing group: III
Proper shipping name: Corrosive solid, basic, organic, n.o.s. (Chloramine T trihydrate)
Marine pollutant: No
 Poison Inhalation Hazard: No

IMDG
UN number: 3263   Class: 6   Packing group: III
Proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Chloramine T trihydrate)
Marine pollutant: No

IATA
UN number: 3263   Class: 6   Packing group: III
Proper shipping name: Corrosive solid, basic, organic, n.o.s. (Chloramine T trihydrate)

15. REGULATORY INFORMATION

OSHA Hazards
Target Organ Effect, Harmful by ingestion, Respiratory sensitiser, Corrosive

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (lo Minima) reporting levels established by SARA Title III, Section 313.

SARA 31312 Hazards
Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components

Chloramine T trihydrate
CAS-No. 7080-50-4

New Jersey Right To Know Components

Chloramine T trihydrate
CAS-No. 7080-50-4

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

18. OTHER INFORMATION

Further Information
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