

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Catalogue No : C 11925

Product Name : Chloramine T

Manufacture / Supplier Identification Company : Nice Chemicals (P) Ltd., PB No: 2217,
Manimala Road, Edappally, Kochi - 682 024,
Kerala, India.

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2 COMPOSITION / INFORMATION ON INGREDIENTS

Molecular Formula : $C_7H_7ClNNaO_2S \cdot 3H_2O$

Synonyms : N-Chloro-p-toluenesulfonamidesodium salt

CAS - No : 7080 - 50 - 4

Molar Mass :

Molecular weight : 281.69 g/mol

EC - INDEX No : 616-010-00-9

EC - No : 204-854-7

3 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 : Respiratory sensitisation (Category 1), H334
Acute toxicity, Oral (Category 4), H302
Skin corrosion (Category 1B), H314

For the full text of the H-Statements mentioned in this Section, see Section 16


Classification according to EU Directives 67/548/EEC or 1999/45/EC : C Corrosive R34
Xn Harmful R22
R31
R42

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For the full text of the R-phrases mentioned in this Section, see Section 16.

Label Elements

Labelling according Regulation (EC) No 1272/2008

Pictogram	:	
Signal word	:	Danger
Hazard statement (s)		
H302	:	Harmful if swallowed
H314	:	Causes severe skin burns and eye damage
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statement(s)		
P261	:	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P280	:	Wear protective gloves/ protective clothing/ eye protection/ face Protection
P305 + P351 + P338	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician
Supplemental Hazard Information		
EUH031	:	Contact with acids liberates toxic gas
Other Hazards	:	none

4 FIRST AID MEASURES

General advice	:	Consult a physician. Show this safety data sheet to the doctor in attendance.
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.
If swallowed	:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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Most Important symptoms and effects, both acute and delayed	:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	:	no data available

5 FIRE - FIGHTING MEASURES

Suitable extinguishing media	:	Dry powder
Special hazards arising from the substance or mixture	:	Carbon oxides, nitrogen oxides (NO _x), Sulphur oxides, Hydrogen chloride gas, Sodium oxides
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.
Further Information	:	No data available.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental-protection	:	Do not let product enter drains.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to other sections	:	For disposal see section 13.

7 HANDLING AND STORAGE

Precautions for safe handling	:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
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Conditions for safe storage, including any incompatibilities	:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Store under inert gas. Air sensitive.
Specific end users	:	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameter

Components with workplace control parameters

Exposure Controls

Appropriate engineering controls	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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Personal protective equipment

Eye/face protection	:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
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Skin Protection	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands
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The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection	:	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
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Respiratory protection	:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	:	Do not let product enter drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance		Form : Powder Colour : off - white
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	8,0 - 10,0 at 50 g/l at 20 °C
Melting Point/Freezing point	:	Melting point/range: 167 - 170 °C
Initial Boiling point and boiling range	:	No data available
Flash Point	:	192 °C - closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	No data available
Vapour Pressure	:	No data available
Vapour Density	:	No data available
Relative density	:	No data available
Water solubility	:	Soluble
Partition coefficient: octanol/water	:	No data available
Autoignition temperature	:	No data available

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Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Other Safety information		
Bulk density	:	0,5 - 0,7 g/l

10 STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No data available
Conditions to be avoid	:	No data available
Incompatible materials	:	Do not store near acids., Strong oxidizing
hazardous decomposition products	:	Other decomposition products - no data available In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION**Information on toxicological effects**

Acute Toxicity	:	No data available
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Further toxicological Information

Skin corrosion/irritation	:	No data available
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Serious eye damage/eye irritation	:	No data available
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Respiratory or skin sensitisation	:	No data available
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Germ cell mutagenicity	:	No data available
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Carcinogenicity	:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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SAFETY DATA SHEET

Catalogue No	:	C 11925
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Reproductive toxicity	:	No data available
Specific target organ toxicity - single exposure	:	No data available
Specific target organ toxicity - repeated exposure	:	No data available
Aspiration hazard	:	No data available
Additional Information	:	RTECS: Not available Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Cough, Shortness of breath, Headache, Nausea, Vomiting, Repeated exposure may cause asthma., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 ECOLOGICAL INFORMATION

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Results of PBT and vPvB assessment	:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	:	No data available

13 DISPOSAL METHOD

Waste treatment methods

Product	:	Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

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14 TRANSPORT INFORMATION

UN number	:	ADR/RID: - 3263 IMDG: - 3263 IATA: - 3263
UN Proper shipping name	:	ADR/RID: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Chloramine T trihydrate) IMDG: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Chloramine T trihydrate) IATA: Corrosive solid, basic, organic, n.o.s. (Chloramine T trihydrate)
Transport hazard class(es)	:	ADR/RID: - 8 IMDG: - 8 IATA:- 8
Packaging group	:	ADR/RID: - III IMDG: - III IATA:- III
Environmental group	:	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	:	No data available

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture	:	No data available
Chemical safety assessment	:	For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	:	Acute toxicity
EUH031	:	Contact with acids liberates toxic gas
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Resp. Sens.	:	Respiratory sensitisation
Skin Corr.	:	Skin corrosion

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Full text of R-phrases referred to under sections 2 and**3**

C	:	Corrosive
R22	:	Harmful if swallowed
R31	:	Contact with acids liberates toxic gas
R34	:	Causes burns
R42	:	May cause sensitisation by inhalation

Further Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge