Infosafe No™	1CHI1	Issue Date : September 2020	RE-ISSUED by CHEMSUPP

Product Name : **CHLORAMINE-T**

Classified as hazardous

1. Identification

GHS Product Identifier: CHLORAMINE-T

Company Name: CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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SA 5013 Australia

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Emergency phone number: CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

Recommended use of the chemical and restrictions on use: Reagent for detection of bromates and halogens, synthesis of organic products, analysis and medicine (antiseptic).

Other Names

Name	Product Code
CHLORAMINE-T LR	CL215
Sodium p-toluenesulfochloramine	
Sodium toluene-p-sulfonchloroamine	
Tosylchloramide sodium	
Chlorine bleaching solution	
Chloramine T trihydrate	
N-Chloro-4-toluenesulfonamide sodium salt	
N-Chloro-4-methylbenzenesulfonamide sodium salt	

Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture:
Acute Toxicity - Oral: Category 4
Sensitization - Respiratory: Category 1
Skin Corrosion/Irritation: Category 1

Signal Word (s): 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.
AUH031 Contact with acids liberates toxic gas

Pictogram (s): Corrosion, Exclamation mark, Health hazard

Precautionary statement – Prevention:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P285 In case of inadequate ventilation wear respiratory protection.

Precautionary statement – Response:
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.

	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statement – Storage	P405 Store locked up.
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical Characterization	Solid				
Ingredients	**Name**	**CAS**	**Proportion**	**Hazard Symbol**	**Risk Phrase**
	Chloramine T	7080-50-4	100 %		
Other Information	Not to be confused with NH2Cl, which is termed chloramine.				

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. If breathing is difficult, give oxygen. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area. Eye wash fountains and safety showers should be available for emergency use.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

5. Fire-fighting measures

Hazards from Combustion Products	Oxides of nitrogen, sulfur and carbon. Hydrogen chloride gas and chlorine gas.
Specific Methods	Small fire: Use dry chemical, CO2 or water spray. If safe to do so, move undamaged containers from fire area. Large fire: Use dry chemical, CO2, foam or water spray - Do not use water jets. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside containers.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. May be transported in a molten form. Fire will produce irritating, poisonous and/or corrosive gases.
Hazchem Code	2X
Decomposition Temp.	60 °C
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

6. Accidental release measures

Personal Precautions	Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.

7. Handling and storage

Precautions for Safe Handling	Avoid substance contact and generation and inhalation of dust. Work under hood. Wash hands and face thoroughly after working with material. Use under chemical fume hood.
Conditions for safe storage, including any incompatabilities	Store away from heat. Store away from oxidizing agents. Store away from acids. Keep containers securely sealed and protected against physical damage. Keep container dry Store at room temperature (15 - 25 °C).
Storage Regulations	Refer Australian Standard AS 3780 'The storage and handling of corrosive substances'.

8. Exposure controls/personal protection

Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White or slightly yellow crystals or powder.
Odour	Slight odour of chlorine.
Decomposition Temperature	60 °C
Melting Point	167 - 170 °C (anhydrous substance)
Solubility in Water	Soluble, 150 g/l (25 °C).

Solubility in Organic Solvents	Insoluble in benzene, chloroform and ether. Decomposed by alcohol.
pH	~8 - 10 (50 g/l, H2O, 20 °C)
Partition Coefficient: n-octanol/water	log P(o/w): 0.84 (calculated)
Flash Point	192 °C (Closed Cup)
Flammability	Combustible.
Molecular Weight	281.69
Other Information	Contains 11.5-13% active chlorine.

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Decomposes slowly in air, liberating chlorine.
Conditions to Avoid	Heating (explosive decomposition if heated above 130 °C), air and moisture.
Incompatible Materials	Strong oxidisers (violent reactions possible), ammonia and acids.
Hazardous Decomposition Products	Oxides of carbon, nitrogen and sulfur and hydrogen chloride gas.
Possibility of hazardous reactions	May decompose violently if heated. Contact with acids liberates toxic gas.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 935 mg/kg.
Ingestion	Harmful if swallowed. Causes burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.
Inhalation	May cause sensitisation by inhalation. Irritating to mucous membranes and upper respiratory tract. May cause coughing and dyspnoea.
Skin	Causes burns.
Eye	Causes burns. Risk of blindness.
Respiratory sensitisation	Sensitization - Respiratory: Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Mutagenicity	Not classified based on available information.
Skin corrosion/irritation	Skin Corrosion/Irritation: Category 1 H314 Causes severe skin burns and eye damage.

12. Ecological information

Persistence and degradability	Biodegradation: 90%/28d. Readily biodegradable.
Mobility	Likely to be mobile in the environment due to its solubility.
Environmental Fate	Large amount will affect pH and harm aquatic organisms.
Bioaccumulative Potential	Behaviour in environmental compartments: log P(o/w): 0.84 (calculated)

	No bioaccumulation is to be expected (log P(o/w)<1).
Biological Properties	Disinfectant effect.
Environmental Protection	Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information	Class 8 Corrosives shall not be loaded in the same vehicle with: - Class 1 Explosives - Class 4. 3 Dangerous when wet substances - Class 5. 1 Oxidizing agents - Class 5. 2 Organic peroxides
U.N. Number	3263
UN proper shipping name	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. - (CHLORAMINE T trihydrate)
Transport hazard class(es)	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	III
IERG Number	36

15. Regulatory information

Regulatory Information	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	S5

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
Empirical Formula & Structural Formula	$C_7H_7SO_2NNaCl.3H_2O$

...End Of MSDS...