



Infosafe No™	1CHSR	Issue Date : October 2019	RE-ISSUED by CHEMSUPP
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Product Name : **TRIS(HYDROXYMETHYL)METHYLAMINE**

Not classified as hazardous

1. Identification

GHS Product Identifier TRIS(HYDROXYMETHYL)METHYLAMINE

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

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Recommended use of the chemical and restrictions on use In the synthesis of surface-active agents, vulcanization accelerators, pharmaceuticals. As emulsifying agent for cosmetic creams and lotions, mineral oil and paraffin wax emulsions, leather dressings, textile specialties. polishes, cleaning compounds, so-called soluble oils. Absorbent for acidic gases. Biological buffer; laboratory reagent.

Other Names**Name****Product Code**

Tris buffer, Tris(hydroxymethyl)aminomethane, Trimethylol amino methane, THAM, Trisamine, Trometamol, Tromethane, 2-Amino-2 (hydroxymethyl)-propane-1,3-diol
TRIS(HYDROXYMETHYL)METHYLAMINE AR
TRIS(HYDROXYMETHYL)METHYLAMINE LR

TA034
TL034

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 Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Chemical Characterization	Ingredients				
	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Solid	Tris Hydroxymethyl Methylamine	77-86-1	100 %		

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion Rinse mouth thoroughly with water immediately. Do not induce vomiting. Seek medical advice if effects persist.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically.

Other Information For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures



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Hazards from Combustion Products	May liberate toxic fumes in fire (oxides of nitrogen).
Specific Methods	No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam.
Specific hazards arising from the chemical	May burn but do not ignite readily.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	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.
Environmental Precautions	Avoid release to the environment.

7. Handling and storage

Precautions for Safe Handling	Avoid generation or accumulation of dusts. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid prolonged or repeated contact with skin and eyes .
Conditions for safe storage, including any incompatibilities	Store away from oxidizing agents. Store in a cool, dry place. Store in well ventilated area. Store away from sources of heat or ignition. Keep containers closed at all times. Store at 15 to 25 °C.
Corrosiveness	Corrosive to copper, brass, aluminium.

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/m ³ . All atmospheric contamination should be kept to as low a level as is workable.
Appropriate engineering controls	In industrial situations 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	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: rubber or plastic gloves.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
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	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



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Form	Solid
Appearance	White to colourless crystals.
Odour	Slightly characteristic.
Melting Point	169 - 172 °C
Boiling Point	219 - 220 °C (13.3 hPa)
Solubility in Water	Soluble.
Solubility in Organic Solvents	Soluble in ethylene glycol, anhydrous ethanol, 95% ethanol, DMF. Slightly soluble in acetone, ethyl acetate, olive oil, cyclohexane, chloroform, carbon tetrachloride.
Specific Gravity	1.353
pH	10.2 - 10.6 (6 g/l, H ₂ O, 20 °C)
Partition Coefficient: n-octanol/water	log P(o/w): -2.31
Flammability	Combustible.
Molecular Weight	121.14

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Hygroscopic
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition. Dust generation. Incompatibles.
Incompatible Materials	Oxidizing agents, acids, bases, copper, brass, aluminium, aldehydes.
Hazardous Decomposition Products	Oxides of carbon, oxides of nitrogen.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 5000 mg/kg
Ingestion	May cause irritation and reddening to the mucous membranes of the mouth, oesophagus, and gastrointestinal tract. Symptoms may include nausea, vomiting, and diarrhea. Large doses may cause weakness, cyanosis, collapse, spasms, muscular symptoms and coma. Risk of aspiration upon vomiting. Effect potentiated by ethanol. Estimated lethal dose: 50 g.
Inhalation	May cause irritation to the mucous membranes and upper respiratory tract. Coughing and shortness of breath may occur.
Skin	May cause swelling, redness, and pain. Dermatitis cannot be excluded. Degreasing effect on the skin, possibly followed by secondary inflammation.
Eye	Symptoms include redness and pain. Risk of corneal clouding.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Prolonged contact of this product may cause skin sensitization and dermatitis.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Persistence and degradability	Rapidly biodegradable.
Environmental Fate	Behaviour in environmental compartments: Distribution: log P(o/w): -2.31
Bioaccumulative Potential	No bioaccumulation is to be expected (log P(o/w) < 1).

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information



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Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. 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.
Contact Person/Point	

Empirical Formula & Structural Formula NH₂ C(CH₂ OH)₃

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