



**Information** 150B Harris Road, East Tamaki, Auckland

Phone (09) 273 4343  
Fax (09) 273 4341

Emergency Advice (NZ): Phone 0800 154 666

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## 2. HAZARDS IDENTIFICATION

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### Hazard Classification

Australia:  
Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.

HSNO Classification:  
6.1E - Substance that is acutely toxic.  
6.3A - Substance that is irritating to the skin.  
6.4A - Substance that is irritating to the eye.

### Risk Phrase(s)

R36/37/38 Irritating to eyes, respiratory system and skin.

### Safety Phrase(s)

S22 Do not breathe dust.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S24/25 Avoid contact with skin and eyes.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Ingredients	Name	CAS	Proportion
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#### 4. FIRST AID MEASURES

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<b>Inhalation</b>	If inhaled, remove to fresh area. Keep at rest until recovered. If symptoms persist seek medical attention.
<b>Ingestion</b>	If swallowed, do not induce vomiting. Wash out mouth and lips thoroughly with water. Seek medical attention.
<b>Skin</b>	Wash with water and soap. If irritation develops seek medical attention.
<b>Eye</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing for several minutes until all contaminants are washed off. Seek medical attention.
<b>First Aid Facilities</b>	An eye wash fountain, safety shower and general washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically.

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#### 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	Foam, dry chemical powder, carbon dioxide, water spray or water fog.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, amines and oxides of nitrogen.
<b>Specific Hazards</b>	Combustible solid; will burn and/or decompose under fire conditions. The finely divided dust, in sufficient quantity, may form flammable/explosive mixtures with air. Dust clouds may present an explosion hazard in the presence of an ignition source.
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Emergency Procedures** Wear appropriate personal protective equipment and clothing to prevent inhalation and eye exposure. Sweep up material avoiding dust generation or where possible use dustless methods such as vacuum to collect the material and transfer into suitable labelled containers for subsequent recycling or disposal. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling** Wear appropriate protective equipment to prevent inhalation and eye exposure. Use in designated areas with adequate ventilation. Prevent the creation of dust in the work atmosphere. Keep containers closed when not in use. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

**Conditions for Safe Storage** Store in a cool, dry, well-ventilated area away from heat, sources of ignition and oxidising agents, acids and bases. Protect from moisture. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**National Exposure Standards** No exposure standards have been established for the mixture by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels. The exposure limits for dust not otherwise specified are as follows:  
Australian National Occupational Health And Safety Commission (NOHSC) exposure standards:  
Dust TWA 10 mg/m<sup>3</sup> (inspirable fraction)

New Zealand Workplace Exposure Standards (OSH):  
Dust TWA 10 mg/m<sup>3</sup> (inspirable fraction); TWA 3 mg/m<sup>3</sup>  
(respirable fraction)  
TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

- Engineering Controls** Provide adequate ventilation to keep airborne levels below the exposure limits. Where dust is generated, particularly in enclosed areas, a local exhaust ventilation system, drawing dust away from workers' breathing zone is required.
- Respiratory Protection** If engineering controls are not effective in controlling airborne exposure then an approved respirator with a particulate/dust filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
- Eye Protection** Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
- Hand Protection** Wear laminated film or other suitable, impervious gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
- Body Protection** Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- Appearance** White crystalline solid.
- Melting Point** 172°C
- Boiling Point** 219°C at 10 mmHg
- Solubility in Water** Soluble

<b>Specific Gravity</b>	Not available
<b>pH Value</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Combustible solid.
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	Not available
<b>Flammable Limits - Upper</b>	Not available

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Incompatible Materials</b>	Strong oxidising agents and strong bases. Also incompatible with acids, aldehydes, and powdered copper, brass and aluminium.
<b>Hazardous Decomposition Products</b>	Thermal decomposition products include carbon monoxide, carbon dioxide, amines and oxides of nitrogen.
<b>Hazardous Polymerization</b>	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	For Tris(hydroxymethyl)methylamine: LD50 (Oral, Rat): 5900 mg/kg
<b>Inhalation</b>	Irritating to respiratory system. Inhalation of dust will cause coughing, breathing difficulties and respiratory discomfort.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract and stomach, causing discomfort, nausea and vomiting.
<b>Skin</b>	Irritating to skin. Skin contact will cause redness and

itchiness.

**Eye** Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

**Chronic Effects** Prolonged or repeated exposure to dust by inhalation may lead to respiratory disorders. Chronic exposure may cause liver and kidney damage.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** Not available

**Persistence / Degradability** Not available

**Mobility** Not available

**Bioaccumulative Potential** Not available

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations** The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

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## 14. TRANSPORT INFORMATION

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**Transport Information** Australia:  
Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:  
Not classified as Dangerous Goods for transport according to the NZS 5433:1999 Transport of Dangerous Goods on Land.

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## 15. REGULATORY INFORMATION

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**Regulatory** Australia:

**Information** Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule** Not Scheduled

**National and or International Regulatory Information** New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
ERMA Approval Code: HSR003815; Tromethamine.

**Hazard Category** Irritant

**AICS (Australia)** All constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS** MSDS Reviewed: August 2007  
Supersedes: September 2002

**Contact Person/Point** For further information contact Tom Sadler on 1300 884 078 during business hours. In case of emergency call Australia 1800 638 556/ New Zealand

0800 154 666 .

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Ajax Finechem Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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## End of MSDS

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