

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) Name: Tris Buffer. Catalogue # C021.
Other Names: Tris Hydroxymethylaminoethane; Trisamine
Recommended Use: Buffering Compound.

Supplier Name: ProSciTech
Postal Address: PO Box 111, Thuringowa Central Qld. 4817 Australia
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444
Fax Number: (07) 4773 2244
Emergency Contact: (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of NOHSC.
Risk Phrases:
Safety Phrases:

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE:
Chemical Identity: Tris Free Base, Ultra Pure
Common Name(s): Tris Hydroxymethylaminoethane; Trisamine
CAS Number(s): 77-86-1

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
C4H11N1O3	77-86-1	100%

SECTION 4 - FIRST AID MEASURES

Swallowed: If conscious wash out person's mouth with water and seek immediate medical attention. Never give anything to an unconscious person.
Eye: Flush eyes with running water for at least 15 minutes, seek immediate medical attention.
Skin: Wash skin with soap and water for at least 15 minutes. Seek medical attention. Wash all contaminated clothing before reusing.
Inhaled: Remove person to fresh air, if not breathing give artificial respiration. If breathing is difficult administer oxygen. Seek immediate medical attention.
First Aid Facilities: Safety shower, Eye bath.
Medical Attention & Special Treatment:

ADDITIONAL INFORMATION: Harmful if ingested, inhaled, or absorbed through the skin. Causes eye irritation and skin irritation. Material is irritating to mucous membranes and upper respiratory tract.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam.
Hazards from Combustion Products: Emits toxic fumes under fire conditions.
Precautions for Fire Fighters: Wear self contained (NIOSH/MSHA) approved breathing apparatus and protective clothing to prevent contact with skin and eye.
Hazchem Code:

SECTION 6 - ACCIDENTAL RELEASE MEASURES**Emergency Procedures:****Containment and clean up:**

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Avoid raising dust. Sweep up spill and place in a bag for waste disposal. Ventilate the area and wash spill site after material pickup is complete.

SECTION 7 - HANDLING & STORAGE**Precautions for Safe Handling:**

Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Conditions for Safe Storage:

Store at room temperature, in a cool dry area. Keep the container tightly closed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**National Exposure Standards:**

NOHSC 1974

Biological Limit Values:**Engineering Controls:**

Use in a well ventilated area. Preferably have a mechanical exhaust ventilation system.

Personal Protective Equipment:

Use NIOSH/MSHA approved respirator, chemically resistant gloves and chemical safety glasses.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**Appearance:**

White Crystalline Solid

Odour:

Odourless

pH:

Not available.

Vapour pressure:

Not available.

Vapour density:

Not available.

Boiling point/range:

219-220°C.

Freezing/melting point:

172°C.

Solubility:

>100g/L (water)

Specific gravity or density:

Not available.

Flash Point:

Not available.

Flammable (explosive) limits:

Not available.

Ignition temperature:

Not available.

Additional Information:**SECTION 10 - STABILITY AND REACTIVITY****Chemical stability:**

Stable.

Conditions to avoid:**Incompatible Materials:**

Bases, oxidising agents.

Hazardous Decomposition**Products:****Hazardous Reactions:****SECTION 11 - TOXICOLOGICAL INFORMATION****Acute and chronic health effects:**

Oral-Rate LD50: 5900mg/kg, IVn-MUS LD50: 1210mg/kg

Possible routes of exposure:**Range of effects following exposure:****Dose likely to cause injury:****Delayed effects:****Relevant negative data:****SECTION 12 – ECOLOGICAL INFORMATION****Ecotoxicity:****Persistence and degradability:****Mobility:****Additional Information:**

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods: Observe all federal, state and local regulations. The material should be ignited in the presence of sodium carbonate slaked lime (calcium hydroxide). The substance should be mixed with vermiculite and the dry caustics wrapped in paper and burned in a chemical incinerator equipped with an afterburner scrubber.

Special Precautions:

SECTION 14 - TRANSPORT INFORMATION

UN Number:

UN Proper Shipping Name:

Class and Subsidiary risk:

Packing Group:

Special Precautions for User:

Hazchem Code:

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None allocated

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: 10 September 2007
