Camlab Limited – Material Safety Data Sheet

1. Identification Product Code 1111491 TRIS-(HYDROXYMETHYL)-METHYLAMINE A.R. Product Name NH₂C (CH₂OH) 3 =121.14 Molecular Formula 77-86-1 CAS Number CAMLAB LIMITED Supplier: 0 Norman Way Industrial Estate Over Cambridge England CB4 5WE 01954 233110 Phone 01954 233101 Fax 08:00-17:00 01954 233110 Emergency Telephone 24hr 112 (Have this document to hand)

2. Composition

No hazardous components

3. Hazards Identification

Not considered harmful

4. First Aid Measures		
Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.	
Skin	Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.	
Inhalation	Remove from exposure.	
Ingestion	Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.	

5. Fire Fighting Measures		
Hazards	Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire- fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.	
Extinguishing Media	Consider what other flammable materials are present and act accordingly.	
Unsuitable Media	Nothing specified.	

6. Accidental Release Measures

PersonalAvoid breathing dust. Use approved personal protective equipment. Evacuate areaProtectionimmediately. Do not allow general use of area until it is safe to do so.EnviromentalNotify the Environmental Agency and local Environmental Health Officer if major spillage
occurs.

6. Accidental Release Measures (continued)		
Major Spillage	Shovel/sweep up into container for removal Wash area down with copious amounts of water.	
Minor Spillage	Wash area down with copious amounts of water.	
7. Storage & Handling		

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.
	Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.
Storage Conditions	Well ventilated, cool, dry storage .

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection		
Respiratory	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.	
Hands	Wear gloves.	
Eyes	Use chemical splash proof glasses or goggles.	
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.	

9. Physical & Chemical Properties

Appearance	White crystalline powder.	
Odour	Odourless.	
рH	10 (0.1 M solution)	
Boiling point	219.0 °C	
Melting point	170.0 °C	
Flash point	Not available	
Upper Flammable Limit	Not available	
Lower Flammable Limit	Not available	
Auto Ignition	Not available	
Explosive properties	No.	
Oxidising Properties	No.	
Vapour Presure	Not available	
Relative Density	Not available	
Water Solubility	Very soluble in water.	

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	No specific conditions.
Materials to Avoid	Acids.
Hazardous Decomposition Products	Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide.

11. Toxicological Information

Eyes	Contact with the solid or dust may be irritating to the eyes.
Skin	Unlikely to be an irritant on brief or occasional exposure.
LD50 Skin	Not available
Ingest	Ingestion of large amounts may produce gastrointestinal irritation.
LD50 Ingest	Oral Rat 5500mg/Kg
Inhalation	Inhalation of dust may produce irritation of the eyes, nose, throat and respiratory tract.

11. Toxico	logical	Information	(continued)

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen. Reproductive Effects None identified.

12. Ecological

Not readily biodegradable, BOD of THOD =0%. Non-toxic to aquatic life.

13. Disposal Considerations

Disposal Methods

Dispose of in a licensed incinerator.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name	Non-restricted
UN Number	Non-restricted
UN Classification	None
Subsidiary Risk	None
Flash Point	Not available
Packing Group	None
Transport Category	None
Marine pollutant	No
ADR Hazard ID	Non-restricted

15. Regulatory Information

Labelling	None
Classification	
Label Symbols	None
Risk & safety Phrases	None
EEC Number	201-064-4

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

Revision Date: 4/09/95. Data reviewed and PDF file generated: 17/03/10. Copyright 2010 Camlab Limited.