

AUSTRALIAN CHEMICAL REAGENTS
SAFETY DATA SHEET

Date Prepared: February 2018
Version No: 5

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Hardness Test Reagent No 1
Product Code: 2995
Other Names: Nil
Uses: Analytical Reagent

Supplier: Australian Chemical Reagents
38-50 Bedford Street Gillman SA 5013

Contacts: Telephone: 61 08 84402000
Fax: 61 08 84402001
Emergency Phone: 61 08 84402000 Mon – Fri 8:30am – 5:00pm

2. HAZARDS INFORMATION

GHS Classification

Eye Damage/Irritation: Category 1
Acute Toxicity - Oral: Category 4

Signal Word(s)
Pictogram(s)

DANGER

**Hazard Statement(s)**

H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautionary Statement(s)
Preventative

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.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

Storage

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Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Triethanolamine	[102-71-6]	>80%
Propan-2-ol	[67-63-0]	<20%

4. FIRST AID MEASURES

Safety showers and eye wash facilities should be provided.

Swallowed :

If conscious wash out mouth with water. Seek medical advice. Show this SDS to medical practitioner.

Eye :

Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this SDS to medical practitioner.

Skin :

Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this SDS to medical practitioner. Launder clothing before reuse.

Inhaled :

Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Hazards From Combustion Products:

Solutions will not burn or support combustion. Decomposition products include oxides of carbon and nitrogen.

Precautions For Fire Fighters and Special Protective Equipment:

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Prevent from entering waterways. Restrict access to area. Remove chemicals that can react with the spilled material.

Methods and materials for containment and clean up:

Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Conditions for Safe Storage:

Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

Safe Work Australia – Propan-2-ol 492 mg/m³ TWA 614 mg/m³ STEL

Biological Limit Values: No data available.

Engineering Controls:

Not required with normal use. If mists are likely to be generated maintain atmospheric concentrations well below exposure standards with extraction ventilation.

Personal Protective Equipment (PPE):

The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Dark liquid
Odour:	characteristic
pH:	10
Boiling Point (°C) :	approx 88
Freezing/melting Point:	Not available
Vapour Pressure (mm of Hg @ 25°C) :	Not available
Vapour Density:	Not available
Specific Gravity :	1
Flash Point (°C) :	25
Flammability Limits (%) :	Not available
Solubility in Water (g/L) :	Soluble

10. STABILITY AND REACTIVITY

Chemical stability:

Stable.

Conditions to avoid:

Heat

Incompatible materials:

Hazardous decomposition products:

Refer to section 5 (Fire Fighting Measures).

Hazardous reactions:

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects:

Swallowed : Irritating to the gastric system. Ingestion of large amounts may cause inflammation and ulceration of the gastric tract. For propan-2-ol LDLo oral man 5272mg/kg , LD50 oral rat 5045mg/kg. For triethanolamine oral rat LD50 8000mg/kg.

Eye : Irritating to eye tissue. For propan-2-ol 10mg applied to rabbit eyes produced mild irritation. For triethanolamine 10mg applied to rabbit eyes produced mild irritation.

Skin : Irritating to skin tissue. May be harmful by skin contact. For propan-2-ol 500mg applied to rabbit skin caused mild irritation. For triethanolamine 15mg applied to human skin for three days produced mild irritation.

Inhaled : Not considered a hazard with normal laboratory use. Propan-2-ol vapour is irritating to the respiratory system and prolonged exposure may cause nausea, headache, vomiting and narcotic effects.

Chronic Effects: None know

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data available.

Persistence and degradability:

No data available.

Mobility:

No data available.

13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Class and subsidiary risk(s): None Allocated

Packing Group: None Allocated

Hazchem Code: None Allocated

Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):

Schedule 5

16. OTHER INFORMATION

Disclaimer:

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END of SDS