AUSTRALIAN CHEMICAL REAGENTS

MATERIAL SAFETY DATA SHEET

Date Prepared: July 2008
Version No: 3

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Buffer Solution pH 10 Colour Coded Blue
Product Code: 0116
Other Names: nil
Uses: Analytical Reagent

Supplier: Australian Chemical Reagents
19 Kensal Street Moorooka Qld 4105

Contacts: Telephone: 61 07 38484828
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Emergency Phone: 61 07 38484828

2. HAZARDS INFORMATION

Hazard classification: Non Hazardous. Non Dangerous Goods.
Risk phrases:
Not considered a hazard according to the criteria of NOHSC.

Safety phrases:
Not considered a hazard according to the criteria of NOHSC.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Sodium Tetraborate	[1330-43-4]	<10%
Sodium Hydroxide	[1310-73-2]	<1%
Water	[7732-18-5]	to 100%

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 MSDS to medical practitioner.
Eye :
Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this MSDS to medical practitioner.
Skin :
Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this MSDS to medical practitioner. Launder clothing before reuse.
Inhaled :
Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this MSDS to a doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Hazards From Combustion Products:
Product will not burn or support combustion. Decomposition products include oxides of sodium and boron.
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:
Do not allow to enter 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 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:
Worksafe Australia - Borates,tetra,sodium salts(decahydrate) - 5mg/m^3 TWA
Sodium hydroxide - 2 mg/m^3 TWA & Peak limitation

Biological Limit Values: No data available.

Engineering Controls:
Not required with normal use.

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 :	Clear blue liquid
Odour:	Nil
pH:	10
Boiling Point (^{0}C) :	100
Freezing/melting Point:	0
Vapour Pressure (mm of Hg @ 25^{0}C) :	Not applicable
Vapour Density:	Not applicable
Specific Gravity :	1
Flash Point (^{0}C) :	Not flammable
Flammability Limits (%) :	Not flammable
Solubility in Water (g/L) :	Soluble

10. STABILITY AND REACTIVITY

Chemical stability:
Stable.
Conditions to avoid:
Excessive heat. Strong sunlight. Absorption of carbon dioxide.
Incompatible materials:
Acids, alkalis.
Hazardous decomposition products:
Refer to section 5 (Fire Fighting Measures).
Hazardous reactions:
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects:
Swallowed : May cause irritation of the gastric system. Ingestion of large quantities may cause severe vomiting, diarrhoea, shock or death. For sodium tetraborate LDL_0 : oral infant 1000mg/kg ,oral man 709mg/kg LD50 oral rat 2660mg/kg
Eye : May be irritating to eye tissue. For sodium hydroxide 500mg applied to rabbit skin produced severe irritation after 24 hours.
Skin : May irritate skin tissue. May be harmful by skin absorption.
Inhaled : Not considered a hazard with normal laboratory use. Mists may cause irritation of mucous membranes.
Chronic Effects: No data available

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):
Not Scheduled

16. OTHER INFORMATION

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