

AUSTRALIAN CHEMICAL REAGENTS

# MATERIAL SAFETY DATA SHEET

Date Prepared: July 2008  
Version No: 3

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Buffer Solution pH 9.2 Colour Coded Turquoise  
Product Code: 0115  
Other Names: nil  
Uses: Analytical Reagent

Supplier: Australian Chemical Reagents  
19 Kensal Street Moorooka Qld 4105

Contacts: Telephone: 61 07 38484828  
Fax: 61 07 38925936  
Emergency Phone: 61 07 38484828

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## 2. HAZARDS INFORMATION

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**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.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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**Ingredients :**

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

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## 4. FIRST AID MEASURES

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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.

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## 5. FIRE FIGHTING MEASURES

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### 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.

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## 6. ACCIDENTAL RELEASE MEASURES

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### 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.

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## 7. HANDLING AND STORAGE

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### 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.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### National Exposure Standards:

Worksafe Australia - Borates,tetra,sodium salts(decahydrate) - 5mg/m<sup>3</sup> TWA

**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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance :	Clear turquoise liquid
Odour:	Nil
pH:	9
Boiling Point (°C) :	100
Freezing/melting Point:	0
Vapour Pressure (mm of Hg @ 25°C) :	Not applicable
Vapour Density:	Not applicable
Specific Gravity :	1
Flash Point (°C) :	Not flammable
Flammability Limits (%) :	Not flammable
Solubility in Water (g/L) :	Soluble

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## 10. STABILITY AND REACTIVITY

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### 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.

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## 11. TOXICOLOGICAL INFORMATION

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### 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 LD<sub>50</sub>: oral infant 1000mg/kg ,oral man 709mg/kg LD50 oral rat 2660mg/kg

**Eye** : May be irritating to eye tissue.

**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

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity:

No data available.

### Persistence and degradability:

No data available.

### Mobility:

No data available.

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

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**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

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## **15. REGULATORY INFORMATION**

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

Not Scheduled

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## **16. OTHER INFORMATION**

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