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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

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Product Name: Buffer Solution pH 10 Colour Coded Blue  
Product Code: 121389 pH10.01 Buffer, 200mL, with colour indicator  
121390 pH10.01 Buffer, 1 Litre, with colour indicator  
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

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**2. HAZARDS INFORMATION**

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**Hazard classification:** Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Ingredients :**

<b>Chemical Entity</b>	<b>CAS No</b>	<b>Proportion</b>
Sodium Tetraborate	[ 1330-43-4 ]	<10%
Sodium Hydroxide	[1310-73-2 ]	<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 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.

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## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

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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

### Emergency procedures:

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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

### 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

### National Exposure Standards:

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

Sodium hydroxide - 2 mg/m<sup>3</sup> 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

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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. 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

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

No data available.

**Persistence and degradability:**

No data available.

**Mobility:**

No data available.

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### 13. DISPOSAL CONSIDERATIONS

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

**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

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

Not Scheduled

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### 16. OTHER INFORMATION

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