

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: February 2022  
Version No: 6

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Buffer Solution pH 5  
Product Code: 0105  
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 :

| Chemical Entity | CAS No      | Proportion |
|-----------------|-------------|------------|
| Citric acid     | [ 77-92-9]  | 2%         |
| Sodium citrate  | [68-04-2]   | 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

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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 carbon.

### **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:

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.

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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 in a cool well ventilated situation 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:

SWA – : None known

**Biological Limit Values:** No data available.

### Engineering Controls:

Not required with normal use.

### Personal Protective Equipment (PPE):

Avoid contact. 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 liquid   |
| <b>Odour:</b>                              | Nil            |
| <b>pH:</b>                                 | 5              |
| <b>Boiling Point (°C) :</b>                | Not applicable |
| <b>Freezing/melting Point:</b>             | Not applicable |
| <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        |

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## 10. STABILITY AND REACTIVITY

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### Chemical stability:

Stable.

### Conditions to avoid:

Excessive heat. Sunlight.

### 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 :** Consumption of large quantities may cause irritation of the gastric system.

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

**Skin :** Not considered a hazard with normal laboratory use.

**Inhaled :** Not considered a hazard with normal laboratory use.

**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 Medicines and Poisons (SUSMP):**

Not Scheduled

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## 16. OTHER INFORMATION

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