

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: October 2023  
Version No: 6

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Barium Chloride 0.05 N  
Product Code: 3207  
Other Names: Barium Chloride 0.025 M  
Uses: Analytical Reagent

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

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## 2. HAZARDS INFORMATION

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**GHS classification** Acute Toxicity – Oral: Category 4  
Acute Toxicity - Dermal: Category 4  
Acute Toxicity – Inhalation: Category 4

**Signal Word(s)** WARNING  
**Pictogram(s)**



**Hazard Statement(s)** H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H332 Harmful if inhaled

**Precautionary Statement(s)  
Preventative**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing.

## Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor physician if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTRE or doctor physician if you feel unwell.

P363 Wash contaminated clothing before reuse.

## Storage

## Disposal

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

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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### Ingredients :

Chemical Entity	CAS No	Proportion
Barium chloride	[10361-37-2]	0.6%
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:

Solution will not burn or support combustion. Decomposition products include barium oxide.

### 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:

Safe Work Australia – Barium (soluble compounds as Ba) 0.5mg/m<sup>3</sup> (TWA)

**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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance :	Clear liquid
Odour:	Nil
pH:	7
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

### Incompatible materials:

Sulphates

### 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** : Harmful if swallowed. May irritate gastric system and result in nausea and vomiting.

**Eye** : Irritating to eye tissue.

**Skin** : Irritating to skin. May be harmful by skin absorption.

**Inhaled** : Aerosols or mists are irritating to mucous membranes and upper respiratory tract.

**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:** Not applicable

**UN Proper Shipping Name:** Not applicable

**Class and subsidiary risk(s):** Not applicable

**Packing Group:** Not applicable

**Hazchem Code:** Not applicable

**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):**

Schedule 6

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## 16. OTHER INFORMATION

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END of SDS