

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: June 2022  
Version No: 6

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Barium Chloride 1 M  
Product Code: 1882  
Other Names: Barium Chloride 2 N  
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: CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

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## 2. HAZARDS INFORMATION

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**GHS Classification** Acute Toxicity - Inhalation: Category 4  
Acute Toxicity - Oral: Category 3

**Signal Word(s)** DANGER  
**Pictogram(s)**



**Hazard Statement (s)** H301 Toxic if swallowed.  
H332 Harmful if inhaled.

**Precautionary Statement(s)**  
**Preventative**

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

**Response**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage** P405 Store locked up.

**Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

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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>
Barium chloride	[10361-37-2]	12%
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.

**Hazchem Code:** 2X

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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)

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**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**

<b>Appearance :</b>	Clear liquid
<b>Odour:</b>	Nil
<b>pH:</b>	7
<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

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**10. STABILITY AND REACTIVITY**

**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**

**Health Effects:**

**Swallowed :** May be harmful if large quantities swallowed. May irritate gastric system and result in nausea and vomiting. . For barium chloride LDLo oral human 11.4 mg/kg oral rat LD50 118 mg/kg

**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**

**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:** 3287

**UN Proper Shipping Name:** Toxic liquid, inorganic, (Barium chloride)

**Class and subsidiary risk(s):** 6

**Packing Group:** 11

**Hazchem Code:** 2X

**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