

AUSTRALIAN CHEMICAL REAGENTS
SAFETY DATA SHEET

Date Prepared: February 2022
Version No: 6

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Barium Chloride 0.5M
Product Code: 5131
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

2. HAZARDS INFORMATION

GHS Classification

Acute Toxicity Oral: Category 4
Acute Toxicity Inhalation: Category 4

Signal Word(s)
Pictogram(s)

WARNING



Hazard Statement(s)

H302 Harmful if swallowed.
H332 Harmful by inhalation.

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.

Response

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

Disposal

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

| Chemical Entity | CAS No | Proportion |
|-----------------|--------------|------------|
| Barium chloride | [10361-37-2] | 12% |
| Water | [7732-18-5] | to 100% |

4. FIRST AID MEASURES

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.

5. FIRE FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

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.

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 in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

SWA – Barium (soluble compounds as Ba) 0.5mg/m³ (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.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|----------------|
| 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 |

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.

11. TOXICOLOGICAL INFORMATION

Health Effects:

Swallowed : Harmful if 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data available.

Persistence and degradability:

No data available.

Mobility:

No data available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN Number: 3287

UN Proper Shipping Name: TOXIC LIQUID INORGANIC NOS (Contains barium chloride 12%)

Class and subsidiary risk(s): Not applicable

Packing Group: II

Hazchem Code: 2X

Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):

Schedule 6

16. OTHER INFORMATION

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