

Barium Chloride 10% (w/v)

SECTION 1. IDENTIFICATION

Product Identifier	Barium Chloride 10% (w/v)
Other Means of Identification	None
Product Code(s)	BA4280
Product Family	Inorganic solution
Recommended Use	Laboratory and industrial use.
Restrictions on Use	None known.
Supplier Identifier	Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995
Emergency Phone No.	CANUTEC CANADA, 613-996-6666, 24 Hours
SDS No.	0774

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Classification

Acute toxicity (Oral) - Category 4 Label Elements



Signal Word: Warning

Hazard Statement(s): Harmful if swallowed.

Precautionary Statement(s): Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Response: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. Rinse mouth. Disposal: Dispose of contents and container in accordance with local, regional, national and international regulations. **Other Hazards**

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Identifier:Barium Chloride 10% (w/v)Date of Preparation:November 08, 2016

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Water	7732-18-5	90.8	Dihydrogen Oxide
Barium chloride, dihydrate	10326-27-9	9.2	Barium Dichloride

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing.

Skin Contact

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Some of the first-aid procedures recommended here require advanced first-aid training. If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

If swallowed: can irritate the mouth, throat and stomach.

Immediate Medical Attention and Special Treatment

Special Instructions

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Closed containers may rupture violently when heated releasing contents. Heating increases the release of toxic vapour.

Corrosive hydrogen chloride.

Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases. Knock down vapours or gases with water fog or fine water spray. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles.

A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary. Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary. Use the personal protective equipment recommended in Section 8 of this safety

data sheet. Remove or isolate incompatible materials as well as other hazardous materials. **Environmental Precautions**

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Contain spill with earth, sand, or absorbent material which does not react with spilled material. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. Avoid breathing in this product. Prevent accidental contact with incompatible chemicals. Wash hands thoroughly after handling this material.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated. Store in a closed container. Separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH 1	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA	
Barium chloride, dihydrate	0.5 mg/m3 A4		0.5 ppm				
Water	Not established		Not established				

A4 = Not classifiable as a human carcinogen.

Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

No specific guidelines are available. Contact chemical manufacturer/supplier for advice.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

2	
Appearance	Colourless liquid.
Odour	Not available
Odour Threshold	Not available
рН	6.50 - 6.90
Melting Point/Freezing Point	~ 0 °C (32 °F) (melting); 0 °C (32 °F) (freezing)
Initial Boiling Point/Range	~ 101 ºC (214 ºF)
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)

Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.09
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

ReactivityNot reactive under normal conditions of use.Chemical StabilityNormally stable.Possibility of Hazardous ReactionsNone known.Conditions to AvoidSunlight. High temperatures. Low temperatures. Incompatible materials.Incompatible MaterialsStrong oxidizing agents (e.g. perchloric acid).Hazardous Decomposition ProductsCorrosive hydrogen chloride.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Barium chloride, dihydr	rate > 2000 ppm (rat)	118 mg/kg (rat)	Not available
Water	Not available	> 89840 mg/kg (rat)	Not available
Skin Corrosion/Irritatio	on		
No information was loca	ated.		
Serious Eye Damage/In	rritation		
No information was loca	ated.		
STOT (Specific Target	Organ Toxicity) - Single Exp	oosure	
Inhalation			
No information was	located.		
Ingestion			
Harmful.			
Aspiration Hazard			
No information was loca	ated.		
STOT (Specific Target	Organ Toxicity) - Repeated I	Exposure	
No information was loca	ated.		
Product Identifier:	Barium Chloride 10% (w/v)		
Date of Preparation:	November 08, 2016		Page 04 of 06

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Barium chloride, dihydrate	Not evaluated	A4	Not Listed	
Water	Not Listed	Not Listed	Not Listed	Not Listed

A4 – Not classifiable as a human carcinogen.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b) Listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Alphachem Limited	
Phone No.	(905)-821-2995	
Date of Preparation	November 08, 2016	
Product Identifier:	Barium Chloride 10% (w/v)	
Date of Preparation:	November 08, 2016	Page 05 of 06

Date of Last Revision	November 08, 2016
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
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