



Section 1 - Chemical Product and Company Identification

Product Name Barium Chloride Dihydrate pure, 99%
Product Code 78118
CAS No 10326-27-9
Use for Laboratory Chemicals.
Company Name Sisco Research Laboratories Pvt. Ltd.
Address 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,
Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#	Hazard Symbols:	Risk Phrases:
10326-27-9	Barium chloride	<=100	unlisted		

Section 3 - Hazards Identification



EMERGENCY OVERVIEW

Toxic if swallowed. Harmful by inhalation.

Potential Health Effects

Eye: Contact produces irritation, tearing, and burning pain.
May cause conjunctivitis.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion: Poison by ingestion. May cause kidney damage. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause hemorrhaging of the digestive tract.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation. May cause effects similar to those described for ingestion.

Chronic:

Section 4 - First Aid Measures



Product Code	78118
Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:	

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling:	Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.
Storage:	Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Control / Personal Protection



Product Code 78118

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 10326-27-9:

CAS# 10361-37-2:

Russia: 0.3 mg/m³ TWA (aerosol)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystals
Color: white
pH: 5-8 (5% aq.solution)
Molecular Formula: BaCl₂·2H₂O
Molecular Weight: 244.28

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, excess heat.
Incompatibilities with Other Materials: Strong oxidizing agents, bromine trifluoride, 2-furan + percarboxylic acid.
Hazardous Decomposition Products: Hydrogen chloride, chlorine.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information



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Product Code 78118

RTECS#: CAS# 10326-27-9: CQ8751000

CAS# 10361-37-2: CQ8750000

LD50/LC50: RTECS: Not available. RTECS:

CAS# 10361-37-2: Oral, mouse: LD50 = 150 mg/kg;

Oral, rat: LD50 = 118 mg/kg;

Oral, rat: LD50 = 397 mg/kg;.

Other: BaCl₂ anhydrous: Oral, rat LD50: 118 mg/kg

Carcinogenicity: Barium chloride dihydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Barium chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information. Mutagenicity: Ames-test: negative.

Section 12 - Ecological Information

Ecotoxicity: Fish: Gold orfe: LC50: 870 ppm

Other: Avoid entering into waters or underground water.
Barium chloride accumulates in plants when it exceeds calcium and magnesium levels in soil.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

Shipping Name: Hazard Class: UN Number: Packing Group:

IATA	BARIUM COMPOUND, N.O.S. (TOXIC)	6.1	1564	III
IMO	BARIUM COMPOUND, N.O.S. (TOXIC)	6.1	1564	III
RID/ADR	BARIUM COMPOUND, N.O.S. (TOXIC)	6.1	1564	III

Section 15 - Regulatory Information



Product Code 78118

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 20 Harmful by inhalation.

R 25 Toxic if swallowed.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 10326-27-9: 1

CAS# 10361-37-2: 1

Canada

CAS# 10361-37-2 is listed on Canada's DSL List

US Federal

TSCA

CAS# 10326-27-9 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)).

CAS# 10361-37-2 is listed on the TSCA Inventory.

Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.