

SAFETY DATA SHEET

BARIUM CHLORIDE, DIHYDRATE

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Barium Chloride, dihydrate
Catalog Number: BAR802

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 4)

Pictogram:



Signal word: Danger

Hazard statements :
H301 Toxic if swallowed.
H332 Harmful if inhaled.

Precautionary statements
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

Potential Health Effects

HARMFUL IF SWALLOWED

Routes of entry: Eyes, skin, inhalation, Ingestion.

Target Organs: kidneys, heart, respiratory system, muscles.

Eyes: May cause irritation. Cause burning.

Skin: May cause irritation. Prolonged exposure can cause necrosis.

Inhalation: causes irritation to respiratory tract.

Ingestion: harmful if swallowed. May cause kidney damage. Affects the muscles causing convulsions, numbness, muscle paralysis, irregular heart rate, pulmonary edema.

CHRONIC HEALTH HAZARDS: May cause adverse effects on liver and kidney.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Barium Chloride, dihydrate	10326-27-9	>99%

Molecular Formula: BaCl₂.H₂O

Molecular Weight: 244.28

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. GET MEDICAL AID

Skin: Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes..

Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen . GET MEDICAL ATTENTION IMMEDIATELY

Ingestion: Wash mouth with water. Do not induce vomiting . GET MEDICAL AID IMMEDIATELY

SECTION 5 FIRE FIGHTING MEASURES

General Information: Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.

Flammable: No

Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

Storage Conditions: Room temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

Canada: TWA: 0.5mg/m³

ACGIH, N/A

Use adequate ventilation. AVOID DUST GENERATION.

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

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Personal Protection: Lab coat, safety goggles, rubber gloves.
Ventilation: Local exhaust systems. Use fume hood
Respiratory protection: use OSHA/MSHA approved respirator.

Proper shipping name: Barium compounds, n.o.s. (Barium chloride dihydrate)

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 1564 Class: 6.1 Packing group: III

Proper shipping name: BARIUM COMPOUND, N.O.S. (Barium chloride dihydrate)

Marine pollutant: No

IATA

UN number: 1564 Class: 6.1 Packing group: III

Proper shipping name: Barium compound, n.o.s. (Barium chloride dihydrate)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline solid

Appearance and Odor: white powder odorless.

Melting Point: 962° C

Boiling Point: 1560° C

Specific Gravity: 3.86

Vapor Density: N/A

Water Solubility: yes

pH: N/A

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure

Conditions to avoid: dust generation. Excess heat

Stability: Stable at normal room temperature and pressure

Incompatibility: incompatible with bromine trifluoride and 2-fum percarboxylic acid (explodes at room temp.) reacts violently with sulfuric acid..

Hazardous Decomposition Products: hydrogen chloride, chlorine.

Hazardous Polymerization: Has not been reported

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

Exposure Limits:

LD50: oral, rat 118 mg/kg

LD50 mouse, oral, 150 mg/kg

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: reproductive toxicity have been shown in laboratory animals.

Neurotoxicity: No data available

Mutagenicity: mutagenic effects have been shown in experimental animals

SECTION 12 ECOLOGICAL INFORMATION

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

DOT (US)

UN number: 1564 Class: 6.1 Packing group: III

SECTION 15 REGULATORY INFORMATION

US: TSCA: listed

European/International: **RISK PHRASE:** TOXIC, HARMFUL BI
INHALATION, TOXIC IF SWALLOWED.

Canada: WHMIS: D1B

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.