



Material Safety Data Sheet

Barium chloride

Section 1 - Chemical Product and Company Identification

MSDS Name:

Barium chloride

Catalog Numbers:

LC11560

Synonyms:

Bariumchloridedihydrate,bariumdichloride

Company Identification:

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
10326-27-9	Barium chloride dihydrate	99+

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: White

Warning! Do not take internally. Do not taste or swallow. Harmful or fatal if swallowed.

Target Organs: Noneknown.

Potential Health Effects

Eye:

Maycauseredness,tearing,irritation,burning,blurredvision.

Skin:

Maycauseswellingandirritation.

Ingestion:

Harmfulifswallowed.Largerdosesc ausecardiacandrespiratoryfailure,kidneyandGItracthemorrhage.Paralysis, hypokalemia, heart disorder may occur.



Material Safety Data Sheet

Barium chloride

Inhalation:

Toxic effects of mist inhalation including muscle tightness, salivation, vomiting, diarrhea, abdominal pain, convulsions, tremors, anxiety, dyspnea, slow pulse, irregular heartbeat.

Chronic:

Exposure may result in mucous membrane irritation, dermatitis, conjunctivitis. May cause bronchitis.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

Get medical aid at once. Give oxygen if respiration is depressed. Induce vomiting (touch fingertip to back of throat) keeping head lower than hips (prevent aspiration into lungs). Give conscious non-convulsive victim two tablespoons of epsom salts (magnesium sulfate) in a glass of warm water, then 2-4 glasses of water.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Emit toxic fumes when involved in a fire. Containers may explode in the heat of a fire. Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust. Wear self-contained breathing apparatus and protective clothing to prevent contact.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 10326-27-9: Not published.

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.



Material Safety Data Sheet

Barium chloride

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Store in amber containers. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Barium chloride dihydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs**Personal Protective Equipment****Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting--any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: White

Odor: Odorless

pH: Neutral

Vapor Pressure: 0.1 mm Hg @20C

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: 2840°F (1,560.00°C)

Freezing/Melting Point: 1760°F (960.00°C)

Decomposition Temperature: No information found.

Solubility in water: Soluble.



Material Safety Data Sheet

Barium chloride

Specific Gravity/Density: 3.097

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

None reported.

Hazardous Decomposition Products

Oxides of nitrogen, oxides of carbon, oxides of sodium.

Hazardous Polymerization

Section 11 - Toxicological Information

RTECS:

CAS# 10326-27-9: CQ8751000.

LD50/LC50:

CAS# 10326-27-9:

No information found.

Carcinogenicity:

CAS# 10326-27-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Barium chloride mist is toxic. Barium Chloride solutions are an eye, skin, mucous membrane irritant: poisoning affects central nervous, gastrointestinal, and muscular systems.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.



Material Safety Data Sheet

Barium chloride

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Barium compounds, n.o.s.
(Barium chloride)

Hazard Class: 6.1

UN Number: UN1564

Packing Group: PG III

Section 15 - Regulatory Information

US Federal

TSCA

CAS#10326-27-9 is not on the TSCA Inventory, however, its anhydrous form is on the inventory and so this hydrate is exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

California Regulations

European/International Regulations

Canadian DSL/NDSL

None of the chemicals in this product are listed on the DSL/NDSL list.

Canada Ingredient Disclosure List

CAS# 10326-27-9 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: August 30, 1998

Revision Date: September 10, 2007



Material Safety Data Sheet
Barium chloride

Information in this MSDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc. assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application.