



**Material Safety Data Sheet**  
**Barium AA Standard 1ml=1mg Ba (1000 ppm)**

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Barium AA Standard 1ml=1mg Ba (1000 ppm)

**Catalog Numbers:**

LC11550

**Synonyms:**

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
10326-27-9	Barium chloride dihydrate	0.5

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Appearance: Colorless*

*Caution! Do not take internally. Do not taste or swallow. May be harmful if swallowed.*

*Target Organs: None known.*

#### Potential Health Effects

**Eye:**

May cause redness, tearing, irritation, burning, blurred vision.

**Skin:**

May cause swelling and irritation.

**Ingestion:**

Harmful if swallowed. Larger doses cause cardiac and respiratory failure, kidney and GI tract hemorrhage. Paralysis, hypokalemia, heart disorder may occur.



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**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:**

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

**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# 7732-18-5: Not published.

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.



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**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**

<b>Chemical Name:</b>	<b>ACGIH</b>	<b>NIOSH</b>	<b>OSHA</b>
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
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 face piece operated in pressure-demand mode.

**Section 9 - Physical and Chemical Properties**

**Physical State:** Clear liquid

**Color:** Colorless

**Odor:** Odorless

**pH:** Neutral

**Vapor Pressure:** No information found.

**Vapor Density:** No information found.

**Evaporation Rate:** No information found.

**Viscosity:** No information found.

**Boiling Point:** 212°F ( 100.00°C)

**Freezing/Melting Point:** 32°F ( 0.00°C)



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**Decomposition Temperature:** No information found.

**Solubility in water:** Soluble.

**Specific Gravity/Density:** 1.0

**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# 7732-18-5: ZC0110000.

CAS# 10326-27-9: CQ8751000.

**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 10326-27-9:

No information found.

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

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.



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**Section 13 - Disposal Considerations**

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

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Not regulated.

**Hazard Class:**

**UN Number:**

**Packing Group:**

**Section 15 - Regulatory Information**

**US Federal**

**TSCA**

CAS# 7732-18-5 is listed on the TSCA Inventory.

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**

CAS# 7732-18-5 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

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

**Section 16 - Other Information**

MSDS Creation Date: November 5, 2000

Revision Date: September 18, 2007



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