

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 12.21.2014**Barium Chloride,****SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Barium Chloride,**Manufacturer/Supplier Article number:** S25187A**Recommended uses of the product and restrictions on use:** Laboratory Chemicals**Manufacturer Details:**

AquaPhoenix Scientific  
860 Gitts Run Road,  
Hanover, PA 17331  
(717) 632-1291

**Supplier Details:**

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
800 955-1177

**Emergency telephone number:**

Emergency Telephone No.: 800-255-3924

**SECTION 2: Hazards identification****Classification of the substance or mixture:****Toxic**

Acute toxicity (oral, dermal, inhalation), category 3

**Irritant**

Acute toxicity (oral, dermal, inhalation), category 4

AcTox Oral 3.

AcTox Inhaln 4.

**Signal word:** Danger**Hazard statements:**

Toxic if swallowed.

Harmful if inhaled.

**Precautionary statements:**

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash skin thoroughly after handling.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Rinse mouth.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Specific treatment (see supplemental first aid instructions on this label).

Call a POISON CENTER or doctor/physician if you feel unwell.

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Store locked up.

Dispose of contents and container as instructed in Section 13.

**Other Non-GHS Classification:** None**SECTION 3: Composition/information on ingredients****Ingredients:**

Ingredients:		
CAS 10326-27-9	Barium Chloride Dihydrate	100 %
Percentages are by weight		

**SECTION 4: First aid measures****Description of first aid measures****After inhalation:**

Loosen clothing as necessary and position individual in a comfortable position. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Seek medical assistance. Do NOT use mouth - to - mouth resuscitation.

**After skin contact:**

Wash affected area with soap and water. Enter emergency shower rinsing while removing contaminated clothing and shoes. Transport victim to the hospital. Rinse exposed skin with water for 15 minutes.

**After eye contact:**

Protect unexposed eye. Occasionally lift the upper and lower eyelids while rinsing. Immediately seek medical attention. Immediately rinse/flush exposed eye(s) gently using water for 15-20 minutes.

**After swallowing:**

Rinse mouth thoroughly. Do not induce vomiting. Do not perform mouth-to-mouth on an unconscious person. Never give anything by mouth to an unconscious person. Call Poison Control Center or a physician immediately. Dilute with water or milk.

**Most important symptoms and effects, both acute and delayed:**

Irritation. Nausea. Headache. Shortness of breath. Eye, Skin, and Gastrointestinal irritation. Muscular stimulation.

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention provide SDS document to physician. Notes to physician: treat symptomatically.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing agents:**

Use water, dry chemical, chemical foam, or alcohol-resistant foam.

**Unsuitable extinguishing agents:** None**Special hazards arising from the substance or mixture:**

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Decomposes at high temperatures, resulting in toxic and corrosive products.

**Advice for firefighters:****Protective equipment:**

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Wear protective eyewear, gloves, and clothing.

**Additional information (precautions):**

Normal ventilation is adequate.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Ensure that air-handling systems are operational. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental precautions:**

Prevent from reaching drains, sewer, or waterway. Should not be released into environment.

**Methods and material for containment and cleaning up:**

Wear protective eyewear, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Refer to Section 8.

**Reference to other sections:** None**SECTION 7: Handling and storage****Precautions for safe handling:**

Avoid contact with skin, eyes and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid ingestion and inhalation. Refer to Section 13.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool location. Store in a cool location. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly closed. Store away from incompatible materials.

**SECTION 8: Exposure controls/personal protection****Control parameters:**

10326-27-9, Barium chloride dihydrate, TWA 0.5 mg/m<sup>3</sup> USA. NIOSH.  
 10326-27-9, Barium chloride dihydrate, WA 0.5 mg/m<sup>3</sup> USA. OSHA.  
 10326-27-9, Barium chloride dihydrate, TWA 0.5 mg/m<sup>3</sup> USA. ACGIH.

**Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

**Respiratory protection:**

Normal ventilation is adequate.

**Protection of skin:**

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

**Eye protection:**

Safety glasses with side shields or goggles. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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**General hygienic measures:** Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and shoes. Before re-wearing, wash contaminated clothing. Perform routine housekeeping.

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state, color):</b>	White solid	<b>Explosion limit lower:</b>	Not determined
		<b>Explosion limit upper:</b>	Not determined
<b>Odor:</b>	Odorless	<b>Vapor pressure at 20°C:</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>pH-value:</b>	5.0 - 8.0 at 50 g/l at 25°C	<b>Relative density:</b>	3.100 g/cm <sup>3</sup>
<b>Melting/Freezing point:</b>	962 °C	<b>Solubilities:</b>	Soluble in water.
<b>Boiling point/Boiling range:</b>	1560 °C	<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Flash point (closed cup):</b>	Not determined	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Decomposition temperature:</b>	> 100°C
<b>Flammability (solid, gaseous):</b>	Not determined	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined
<b>Density at 20°C:</b>	Not determined		

**SECTION 10: Stability and reactivity****Reactivity:**

Nonreactive under normal conditions.

**Chemical stability:**

Moisture sensitive.

**Possible hazardous reactions:**

None under normal processing.

**Conditions to avoid:**

Excessive heat. Incompatible materials. Dust formation.

**Incompatible materials:**

Oxidizing Agents.

**Hazardous decomposition products:**

Hydrogen chloride gas, chlorine.

**SECTION 11: Toxicological information**

**Acute Toxicity:** No additional information.

**Chronic Toxicity:** No additional information.

**Skin corrosion/irritation:** No additional information.

**Serious eye damage/irritation:** No additional information.

**Respiratory or skin sensitization:**

Irritation: Irritating to eyes and skin

**Carcinogenicity:** No additional information.

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No additional information.

**SECTION 12: Ecological information****Ecotoxicity:**

Ecotoxicity , Do not empty into drains. Do not release into the environment.

**Persistence and degradability:**

Readily degradable in the environment.

**Bioaccumulative potential:** No additional information.**Mobility in soil:** No additional information.**Other adverse effects:** No additional information.**SECTION 13: Disposal considerations****Waste disposal recommendations:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Product or containers must not be disposed together with household garbage. Contact a licensed professional waste disposal service to dispose of this material. Consult federal, state, provincial, and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product. Dilute with water and flush to sewer.

**SECTION 14: Transport information****US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA 1564

**Limited Quantity Exception:**

None

**Bulk:****RQ (if applicable):** None**Proper shipping Name:** Barium Compounds, N.O.S.**Hazard Class:** 6**Packing Group:** III.**Marine Pollutant (if applicable):** No additional information.**Comments:** None**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** Barium Compounds, N.O.S.**Hazard Class:** 6**Packing Group:** III.**Marine Pollutant (if applicable):** No additional information.**Comments:** None**SECTION 15: Regulatory information****United States (USA)**

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Acute,Chronic

**SARA Section 313 (Specific toxic chemical listings):**

10326-27-9 Barium chloride dihydrate.

**RCRA (hazardous waste code):**

10326-27-9, Not applicable.

**TSCA (Toxic Substances Control Act) :**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

None of the ingredients are listed.

**Proposition 65 (California):****Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Canada****Canadian Domestic Substances List (DSL) :**

All ingredients are listed.

**SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 3-0-0**HMIS:** 3-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:**

IMDG International Maritime Code for Dangerous Goods.  
 PNEC. Predicted No-Effect Concentration (REACH).  
 CFR Code of Federal Regulations (USA)  
 SARA Superfund Amendments and Reauthorization Act (USA).  
 RCRA. Resource Conservation and Recovery Act (USA).

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- TSCA. Toxic Substances Control Act (USA).
- NPRI National Pollutant Release Inventory (Canada).
- DOT US Department of Transportation.
- IATA International Air Transport Association.
- GHS Globally Harmonized System of Classification and Labelling of Chemicals.
- ACGIH American Conference of Governmental Industrial Hygienists
- CAS Chemical Abstracts Service (division of the American Chemical Society).
- NFPA National Fire Protection Association (USA).
- HMIS Hazardous Materials Identification System (USA).
- WHMIS Workplace Hazardous Materials Information System (Canada).
- DNEL Derived No-Effect Level (REACH).