BARIUM SULFATE, POWDER, LAB GRADE CAROLINA BIOLOGICAL

Revised: 12/09/07 Replaces: 10/07/07 Printed: 18/08/08

### **1. PRODUCT DESCRIPTION**

Product Name: Barium Sulfate Powder Lab Grade Product Code(s): 84-6950 500 q Size: Chemical Name: Barium Sulfate CAS Number: 7727-43-7 Formula: BaSO4 Synonyms: Sulfuric acid, barium salt; barytes; blanc fixe Distributor: Carolina Biological Supply Company 2700 York Road Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Barium Sulfate (CAS# 7727-43-7) TLV and PEL units: No data available.

## 3. HAZARD IDENTIFICATION

Emergency Overview:

Potential Health Effects: Eyes: May cause irritation. Skin: May cause irritation. Ingestion: May cause gastrointestinal discomfort. Inhalation: May cause irritation to respiratory tract.

## 4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists. Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

### 5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): No data available.
NFPA Rating: Health: No data available.
Fire: No data available.
Reactivity: No data available.

Extinguisher Media:

Use media suitable to extinguish surrounding fire. Flammable Limits in Air % by Volume: No data available. Autoignition Temperature: No data available. Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Unusual Fire and Explosion Hazards: Not considered to be an explosion hazard. In the event of a fire, wear full protective clothing and NIOSH-approved

Page 1 of 4

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self-

contained breathing apparatus with full facepiece operated in the pressure

demand or other positive pressure mode.

### 6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

#### 7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep in a tightly closed

container. Protect from physical damage. Store in a cool, dry, ventilated

area away from sources of heat, moisture and incompatibilities.

### **8. SPECIAL PROTECTION INFORMATION**

Respiratory Protection(Specify Type): None needed under normal conditions of use with adequate ventilation. NIOSH approved equipment should be worn if PELs are exceeded. Ventilation: Local Exhaust: Yes Mechanical(General): Yes Special: No Other: No Protective Gloves: Rubber, neoprene, PVC, or equivalent. Eye Protection: Splash proof chemical safety goggles should be worn at all times. Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

#### 9. PHYSICAL DATA

Molecular Weight: 233.39 Melting Point: 1580C Boiling Point: Decomposes above 1600C Vapor Pressure: No data available. Vapor Density(Air=1): No data available. Specific Gravity(H2O=1): 4.5 Percent Volatile by Volume: No data available. Evaporation Rate(H2O=1): No data available. Solubility in Water: Insoluble Appearance and Odor: Fine, white powder. Odorless.

## 10. REACTIVITY DATA

Stability: Stable Conditions to Avoid: No data available. Incompatibility(Materials to Avoid): Aluminum, phosphorus. Hazardous Decomposition Products: When heated to decomposition, emits toxic fumes of sulfur oxides. Hazardous Polymerization: Will not occur

### <u>11. TOXICITY DATA</u>

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Toxicity Data: No LD50/LC50 information found relating to normal routes of occupational exposure Effects of Overexposure: No data available. Acute: See section 3 Chronic: Long term inhalation of dust may lead to decomposition in lungs in sufficient quantities to produce baritosis- a benign pnuemoconiosis. This produces a radiologic picture even though symptoms and abnormal signs may not be present. Conditions Aggravated by Overexposure: No data available. Target Organs: No data available. Primary Route(s) of Entry: No data available. 12. ECOLOGICAL DATA EPA Waste Numbers: No data available. **13. DISPOSAL INFORMATION** Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. **14. TRANSPORT INFORMATION** DOT Hazard Class: Not Regulated **15. REGULATORY INFORMATION** EPA TSCA Status: On TSCA Inventory Hazard Category for SARA Section 311/312 Reporting: Acute SARA Sec. 313 Chemicals RCRA SARA EHS CERCLA Name Chemical List Category Product or Sec. 302 Sec. 103 Sec. Components TPO RO lbs. 261.33 Barium Sulfate No No Barium Compound No No **16. ADDITIONAL INFORMATION** The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the

material.

Glossary ACGIH.....American Conference of Governmental Industrial Hygienists CAS Number..Chemical Abstracts Service Number CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act DOT.....U.S. Department of Transportation

Page 3 of 4

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IARC.....International Agency of Research on Cancer
mppcf....million particles per cubic foot
N/A....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act