

MATERIAL SAFETY DATA SHEET

B
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 16/07/04
Replaces: 09/05/00
Printed: 26/05/06

Swift Science #31

1. PRODUCT DESCRIPTION

Product Name: Barium Chloride Dihydrate ACS
Product Code(s): 84-6706, 84-6708, 84-6710, 84-0900, 84-6720, 85-0070
Size: Various
Chemical Name: Barium Chloride Dihydrate
CAS Number: 10326-27-9
Formula: BaCl₂ 2H₂O
Synonyms: None Known
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 Chloride, Dihydrate (CAS# 10326-27-9)
99-100%.

TLV and PEL units: None Established

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 and induce vomiting immediately as directed by medical personnel. 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, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): No data available.

NFPA Rating: Health: 3
Fire: 0
Reactivity: 0
Contact: 1

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:

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Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: No data available.

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 container tightly closed. Store in a cool, dry, ventilated area away from sources of heat,

moisture, and incompatibilities.

Other Precautions: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Wash thoroughly after handling.

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 coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 244.27

Melting Point: 963C

Boiling Point: No data available.

Vapor Pressure: No data available.

Vapor Density (Air=1): No data available.

Specific Gravity (H₂O=1): 3.86

Percent Volatile by Volume: 0

Evaporation Rate (H₂O=1): No data available.

Solubility in Water: Complete (100%)

Appearance and Odor: Colorless Crystals. Odorless.

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: No data available.

Incompatibility (Materials to Avoid): No data available.

Hazardous Decomposition Products: Hydrogen Chloride

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Barium chloride anhydrous: Oral rat LD50: 118 mg/kg.

Reproductive effects cited.

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Effects of Overexposure:

Acute: See section 3

Chronic: Irritation of respiratory system, central nervous system

damage, damage to spleen, liver, and bone marrow.

Conditions Aggravated by Overexposure: No data available.

Target Organs: No data available.

Primary Route(s) of Entry: Ingestion, Skin contact, Eye contact

12. ECOLOGICAL DATA

EPA Waste Numbers: D005 (EP Toxic Waste)

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

Description: Barium Compounds, n.o.s., 6.1, UN1564, III

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals Name List	CERCLA Sec. 103 RQ lbs.	RCRA Sec.
261.33		Category		

Barium Chloride 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

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

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RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act