Material Safety Data Sheet



BARIUM NITRATE

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Carolina Biological Supply Company

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Section 1 - Product Description

Product Name: Barium Nitrate

Product Code(s): 84-6898, 84-6908, 84-0910, 85-0080, 85-0084

Size: Various

Chemical Name: Barium Nitrate CAS Number: 10022-31-8 Formula: Ba(NO3)2

Synonyms: Barium Dinitrate; Nitric Acid, Barium Salt

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

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

hours)

Section 2 - Hazard Identification

Emergency Overview: Irritating to eyes, respiratory system and skin. Toxic if swallowed. Product is a strong oxidizer.

Potential Health Effects:

Eyes: May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Barium Nitrate (CAS# 10022-31-8) 100%

TLV units: ACGIH-TLV 0.5 mg (Ba)/m3 (TWA) **PEL units:** OSHA-PEL 0.5 mg (Ba)/m3 (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. **Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek

medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

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

Extinguisher Media: Water spray.

Use dry chemical, CO2 or appropriate foam. Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Explosive when mixed with oxidising substances.

Section 6 - Spill or Leak Procedures

Steps to Take 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.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep away from oxidizing materials and strong acids.

Keep container tightly closed in a cool, well-ventilated place.

Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution.

Keep away from combustible material.

Avoid contact with skin and eyes.

Avoid contact with clothing.

After contact with skin, wash immediately with plenty of water.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes **Mechanical(General):** Yes

Special: No **Other:** No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight:261.37Melting Point:592 °CBoiling Point:Decomposes >592 °CVapor Pressure:N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):3.24 at 23 °CPercent Volatile by Volume:N/AEvaporation Rate (BuAc=1):N/A

Solubility in Water: Slightly Soluble **Appearance and Odor:** White, odorless crystals.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Peroxides, Metals,

Hazardous Decomposition Products: NOx, Metal Fumes,

Hazardous Polymerization: Will not occur

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Section 11 - Toxicity Data

Toxicity Data: orl-rat LD50 355 mg/kg

Effects of Overexposure: Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. **Conditions Aggravated by Overexposure:** None Known

Target Organs: N/A

Primary Route(s) of Entry: N/A

Section 12 - Ecological Data

EPA Waste Numbers: D001, D005

Section 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.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1446, Barium Nitrate, 5.1, II

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category: No Barium Compound

CERCLA Section 103 RQ(lb.): No RCRA Section 261.33: No

Section 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 Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

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

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