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Carolina Biological Supply Company



2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

Section 1 - Product Description

Product Name: Bismuth Nitrate Product Code(s): 84-8036, 84-8038, 84-8040

Size: N/A Chemical Name: Bismuth Nitrate CAS Number: 10361-44-1 Formula: Bi (NO3)3 **Synonyms:** Bismuth salt, Bismuth Ternitrate 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: Product is a strong oxidizer. Harmful by inhalation and in contact with skin. **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: Bismuth Nitrate (CAS# 10361-44-1) TLV units: N/A **PEL units:** N/A

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, wash immediately with plenty of ... (Water, unless specified as water-reactive).

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
NFPA Rating:

Health: 0
Fire: 0
Reactivity: 0

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: N/A 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: Product is a strong oxidizer.

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

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: Acceptable Mechanical(General): Preferred 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: 395.01 Boiling Point: N/A Vapor Density(Air=1): N/A Percent Volatile by Volume: 0% Solubility in Water: Soluble Melting Point: 75-80 °C Vapor Pressure: N/A Specific Gravity (H2O=1): 2.83 Evaporation Rate (BuAc=1): N/A Appearance and Odor: Colorless, white, or yellow crystals.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Keep away from combustible material.

Product Name: BISMUTH NITRATE PENTAHYDRATE

Incompatibility (Materials to Avoid): Metals, Acids, Reducing agents, Organics, Hazardous Decomposition Products: Metal Fumes, Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: orl-mus LD50 >357 mg/kg orl-rat LD50 4 gm/kg Effects of Overexposure: Acute: See Section 2 Chronic: Reproductive data cited. 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: Inhalation and ingestion.

Section 12 - Ecological Data

EPA Waste Numbers: N/A

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: UN1477, Nitrates, Inorganic, n.o.s. (Bismuth Nitrate), 5.1, II, 300 lb

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory **Hazard Category for SARA Section 311/312 Reporting:** Acute

Name List: No **Chemical Category:** Yes

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.

GlossaryACGIHAmerican Conference of Governmental Industrial HygienistsCAS NumberChemical Services Abstract Number

Product Name: BISMUTH NITRATE PENTAHYDRATE

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
TSCA	Toxic Substances Control Act