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.
- Inhalation: May cause irritation to respiratory tract.
- Skin: May cause irritation to skin.
- Ingestion: May cause gastrointestinal discomfort.

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.
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.

Glossary
ACGIH American Conference of Governmental Industrial Hygienists
CAS Number Chemical Services Abstract Number
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response, Compensation, and Liability Act</td>
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<tr>
<td>DOT</td>
<td>U.S. Department of Transportation</td>
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<tr>
<td>IARC</td>
<td>International Agency of Research on Cancer</td>
</tr>
<tr>
<td>N/A</td>
<td>Not Available</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
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<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
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<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>ppm</td>
<td>Parts per million</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
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<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
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<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
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