Material Safety Data Sheet

Bromothymol Blue, Water Soluble

Section 1 - Product Description

Product Name: Bromothymol Blue, Water Soluble
Product Code(s): 84-9150, 84-9152, 84-9180, 20-6070, 85-0120
Size: 1 g, 5 g, 4 oz
Chemical Name: Bromothymol Blue, Sodium Salt
CAS Number: 34722-90-2
Formula: C27H27O5Br2SNa
Synonyms: Bromothymol Blue pH Indicator
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:
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: Bromothymol Blue, Sodium Salt (CAS# 34722-90-2) 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, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).
  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 - 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: 1
  - Fire: 1
  - Reactivity: 0
- Extinguisher Media: 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: Avoid Dusting. May become explosive when dispersed in air. Explosive when mixed with oxidising substances. Fire or excessive heat may produce hazardous decomposition products.

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: After contact with skin, wash immediately with plenty of ... (Water, unless specified as water-reactive).
- Do not breathe dust.
- Harmful if swallowed.
- Avoid contact with skin and eyes. 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: Preferred
- Mechanical(General): Acceptable
- 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: 646.37
- Boiling Point: N/A
- Vapor Density(Air=1): N/A
- Percent Volatile by Volume: N/A
- Solubility in Water: Soluble
- Melting Point: N/A
- Vapor Pressure: N/A
- Specific Gravity (H2O=1): N/A
- Evaporation Rate (BuAc=1): N/A
- Appearance and Odor: Purple Crystals; odorless

Section 10 - Reactivity Data

Product Name: Bromothymol Blue, Water Soluble
Stability: Stable
Conditions to Avoid: Heat and sources of ignition. Direct sunlight; Product is photosensitive.
Incompatibility (Materials to Avoid): Oxidizers,
Hazardous Decomposition Products: SOx, Halogenated compounds (Cl, F, Br), COx,
Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: N/A
Effects of Overexposure:
  Acute: See Section 2
  Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.
Conditions Aggravated by Overexposure: N/A
Target Organs: N/A
Primary Route(s) of Entry: N/A

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: N/A

Section 15 - Regulatory Information

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

Name List: Bromothymol Blue, Sodium Salt - No

Chemical Category: Bromothymol Blue, Sodium Salt - No

CERCLA Section 103 RQ(lb.): Bromothymol Blue, Sodium Salt - No
RCRA Section 261.33: Bromothymol Blue, Sodium Salt - 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

Product Name: Bromothymol Blue, Water Soluble
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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</thead>
<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>
</tr>
<tr>
<td>IARC</td>
<td>International Agency of Research on Cancer</td>
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<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>
</tr>
<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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