

MATERIAL SAFETY DATA SHEET

Bromothymol blue
CAROLINA BIOLOGICAL SUPPLY COMPANY

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

Swift Science #31

1. PRODUCT DESCRIPTION

Product Name: Bromothymol Blue, Water Soluble
Product Code(s): 84-9150, 84-9152, 20-6070, 85-0120
Size: 1 g, 5 g, 4 oz
Chemical Name: Bromothymol Blue, Sodium Salt
CAS Number: 34722-90-2
Formula: C₂₇H₂₇O₅Br₂Na
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 (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components:
Bromothymol Blue, Sodium Salt (CAS# 34722-90-2) 100%
TLV and PEL units: No data available.

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): Not applicable
NFPA Rating: Health: 2
Fire: 1
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO₂ or appropriate foam.

Flammable Limits in Air % by Volume: No data available.

Autoignition Temperature: No data available.

Special Firefighting Procedures:

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

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Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

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: Store in cool, dry place.

Avoid contact with skin and eyes. Do not breathe dust.

Other Precautions: Do not take internally. 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: Preferred

Mechanical (General): Acceptable

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: 646.37

Melting Point: No data available.

Boiling Point: No data available.

Vapor Pressure: No data available.

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

Specific Gravity (H₂O=1): No data available.

Percent Volatile by Volume: Negligible as solid.

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

Solubility in Water: Soluble

Appearance and Odor: Light violet powder with no odor.

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Protect from light. Excessive temperature and heat.

Incompatibility (Materials to Avoid): Strong oxidizing agents.

Hazardous Decomposition Products: Combustion will produce carbon dioxide and

probably carbon monoxide. Bromine gas and oxides of sulfur may also be present.

Hazardous Polymerization: Will not occur

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11. TOXICITY DATA

Toxicity Data: No data available.

Effects of Overexposure:

Acute: See section 3

Chronic: No chronic effects data found. Not listed as causing cancer by IARC, NTP, or OSHA.

Conditions Aggravated by Overexposure: No data available.

Target Organs: No data available.

Primary Route(s) of Entry: No data available.

12. ECOLOGICAL DATA

EPA Waste Numbers: None

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

Non-regulated

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		Chemical Category		

Bromothymol Blue,
Sodium Salt

No

No

No

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

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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