



Material Safety Data Sheet  
Bromothymol Blue Solution 0.04%

MSDS# 40091

Section 1 - Chemical Product and Company Identification

MSDS Name: Bromothymol Blue Solution 0.04%  
Catalog Numbers: S71889-1, SI22-500  
Synonyms: None.

Company Identification: Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410  
For information in the US, call: 201-796-7100  
Emergency Number US: 201-796-7100  
CHEMTREC Phone Number, US: 800-424-9300

Section 2 - Composition, Information on Ingredients

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Risk Phrases:  
CAS#: 64-02-8  
Chemical Name: Tetrasodium EDTA  
%: 0.02  
EINECS#: 200-573-9  
Hazard Symbols:  
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Risk Phrases:  
CAS#: 7732-18-5  
Chemical Name: Water  
%: 99.94  
EINECS#: 231-791-2  
Hazard Symbols:  
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Risk Phrases:  
CAS#: 34722-90-2  
Chemical Name: Bromothymol blue sodium salt  
%: 0.04  
EINECS#: 252-169-7  
Hazard Symbols:  
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Text for R-phrases: see Section 16

Hazard Symbols: None listed  
Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! This is expected to be a low hazard for usual industrial handling. May cause eye, skin, and respiratory tract irritation. Target Organs: None.

Potential Health Effects

Eye: May cause eye irritation. Low hazard for normal industrial handling.  
 Skin: May cause skin irritation. Low hazard for usual industrial handling.  
 Ingestion: Low hazard for usual industrial handling.  
 Inhalation: Low hazard for usual industrial handling.  
 Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
 Skin: Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.  
 Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.  
 Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.  
 Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
 Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.  
 Autoignition Temperature: Not applicable.  
 Flash Point: Not applicable.  
 Explosion Limits: Not available  
 Lower:  
 Explosion Limits: Not available  
 Upper:  
 NFPA Rating: health: 0; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.  
 Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.  
 Storage: Store in a cool, dry place.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tetrasodium EDTA	none listed	none listed	none listed
Water	none listed	none listed	none listed
Bromothymol blue sodium salt	none listed	none listed	none listed

OSHA Vacated PELs: Tetrasodium EDTA: None listed Water: None listed Bromothymol blue sodium salt: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear butyl rubber gloves to prevent skin exposure.  
Clothing: Wear appropriate protective clothing to prevent skin exposure.  
Respirators: Respirator protection is not normally required.

#### Section 9 - Physical and Chemical Properties

Physical State: Liquid  
Color: dark green  
Odor: odorless  
pH: Not available  
Vapor Pressure: 14 mm Hg @20 deg C  
Vapor Density: Not available  
Evaporation Rate: >1  
Viscosity: Not available  
Boiling Point: 100 deg C ( 212.00°F)  
Freezing/Melting Point: 0 deg C ( 32.00°F)  
Decomposition Temperature: Not available  
Solubility in water: Soluble in water.  
Specific Gravity/Density: 1  
Molecular Formula: Mixture  
Molecular Weight: 0

#### Section 10 - Stability and Reactivity

Chemical Stability:	Stable.
Conditions to Avoid:	None reported.
Incompatibilities with Other Materials	Not available
Hazardous Decomposition Products	None.
Hazardous Polymerization	Will not occur.

#### Section 11 - Toxicological Information

RTECS#: CAS# 64-02-8: AH5075000  
CAS# 7732-18-5: ZC0110000  
CAS# 34722-90-2: None listed  
RTECS:  
CAS# 64-02-8: Draize test, rabbit, eye: 1900 ug;  
Draize test, rabbit, eye: 100 mg/24H Moderate;  
Draize test, rabbit, skin: 500 mg/24H Moderate;

LD50/LC50: .  
RTECS:  
CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg;  
.   
RTECS:  
CAS# 34722-90-2: .  
Tetrasodium EDTA - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: Water - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
Bromothymol blue sodium salt - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Not available

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT  
Shipping Name: Not Regulated  
Hazard Class:

UN Number:  
Packing Group:  
Canada TDG  
Shipping Name: Not regulated as a hazardous material  
Hazard Class:  
UN Number:  
Packing Group:

## Section 15 - Regulatory Information

### European/International Regulations

#### European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

#### WGK (Water Danger/Protection)

CAS# 64-02-8: 2

CAS# 7732-18-5: Not available

CAS# 34722-90-2: Not available

#### Canada

CAS# 64-02-8 is listed on Canada's DSL List

CAS# 7732-18-5 is listed on Canada's DSL List

CAS# 34722-90-2 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 64-02-8 is not listed on Canada's Ingredient Disclosure List.

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 34722-90-2 is not listed on Canada's Ingredient Disclosure List.

#### US Federal

##### TSCA

CAS# 64-02-8 is listed on the TSCA Inventory.

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 34722-90-2 is listed on the TSCA Inventory.

## Section 16 - Other Information

MSDS Creation Date: 1/27/1999

Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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