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***** MATERIAL SAFETY DATA SHEET *****

Bromothymol Blue Sodium Salt
60090

*** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ***

MSDS Name: Bromothymol Blue Sodium Salt
Catalog Numbers: S71920-2, S71648, S71920, S71921, S71921-1, B-100, S71920-1
Synonyms: Phenol

Company Identification: Fisher Scientific
1 Resguard Lane 07410
Fairlawn, NJ

For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For international CHEMTREC assistance, call: 703-527-3887

*** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ***

CAS#	Chemical Name	%	ELINECS#
34722-90-2	Bromothymol blue, sodium salt	100	252-169-7
Hazard Symbols: None Listed.			
Risk Phrases: None Listed.			

*** SECTION 3 - HAZARDS IDENTIFICATION ***

EMERGENCY OVERVIEW

Appearance: orange to black solid.
Caution! May cause respiratory tract irritation. The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation.
Target Organs: None.

Potential Health Effects

Eye: Dust may cause mechanical irritation. This product contains an unknown dye. Similar dyes have not caused injury to the cornea or conjunctiva in documented exposure cases with human or rabbit eyes.

Skin: May cause skin irritation. No information regarding skin irritation and other potential effects was found.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: this substance have not been fully investigated.
Not available.

*** 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 cupsful of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
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.
Notes to Pharmacist: Treat symptomatically and

*** 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: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.
Autoignition Temperature: Not applicable.
Flash Point: Not applicable.
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.

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NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0
*** SECTION 6 - ACCIDENTAL RELEASE MEASURES ***

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

*** SECTION 7 - HANDLING AND STORAGE ***

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Keep containers tightly closed.

*** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ***

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits			
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Bromothymol blue, sodium salt	none listed	none listed	none listed

OSHA Vacated PELs:

Bromothymol blue, sodium salt:

No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

*** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ***

Physical State: Solid
Color: orange to black
Odor: none reported
pH: Not applicable.
Vapor Pressure: Not applicable.
Evaporation Rate: Not applicable.
Boiling Point: Not applicable.
Freezing/Melting Point: Not applicable.
Decomposition Temperature: Not available.
Solubility in water: Soluble in water.
Specific Gravity/Density: Not available.
Molecular Formula: C27H27Br2O5NaS
Molecular Weight: 646.0438

*** SECTION 10 - STABILITY AND REACTIVITY ***

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur, carbon dioxide, hydrogen bromide.
Hazardous Polymerization: Has not been reported.

*** SECTION 11 - TOXICOLOGICAL INFORMATION ***

RTCS#: CAS# 34722-90-2 unlisted.
LD50/LC50:

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Not available.
Carcinogenicity:
Not available.
Epidemiology: ACGIH, IARC, NIOSH, NTP, or OSHA.
No data available.
Teratogenicity:
No data available.
Reproductive Effects:
No data available.
Neurotoxicity:
No data available.
Mutagenicity:
No data available.
Other Studies:
No data available.

*** SECTION 12 - ECOLOGICAL INFORMATION ***

*** SECTION 13 - DISPOSAL CONSIDERATIONS ***

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Waste generators are listed in US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

*** SECTION 14 - TRANSPORT INFORMATION ***

US DOT
No information available
Canadian TDG
No information available.

*** SECTION 15 - REGULATORY INFORMATION ***

US FEDERAL

TSCA CAS# 34722-90-2 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
SARA
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have a RQ under RCRA.
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
Section 313
No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depleters.
This material does not contain any Class 2 Ozone depleters.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.
STATE
Bromothymol blue, sodium salt is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level:
None of the chemicals in this product are listed.
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phrases:
None.
Safety Phrases:
None.
WGK (Water Management Protection)
CAS# 34722-90-2: No information available.
United Kingdom Occupational Exposure Limits
United Kingdom Maximum Exposure Limits

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Canada

CAS# 34722-90-2 is listed on Canada's DSL List.
This product has a WHMIS classification of Not controlled.
CAS# 34722-90-2 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits

*** SECTION 16 - ADDITIONAL INFORMATION ***

MSDS Creation Date: 9/02/1997 Revision #2 Date: 3/18/2003

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 way shall the company be liable for any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.