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**MSDS**

**Material Safety Data Sheet**

from Mallinckrodt Baker, Inc.  
222 Red School Lane  
Plymouthburg, Mo. 65865

**MALLINCKRODT**



24 Hour Emergency Telephone: 800-368-2151  
CHEMTREC: 1-800-424-9300

National Response In Canada  
CAUTEC: 015-982-4000

Outside U.S. and Canada  
Chemtreat 202 482 7616

NOTE: CHEMTREC, CAUTEC and National Response Center emergency numbers to be used only in the event of a chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

## BROMOTHYMOL BLUE SOLUTION

SDS Number: B5392 --- Effective Date: 12/08/96

### Product Identification

**Synonyms:** 3,3',-Dibromothymolsulfonphthalein, sodium salt in aqueous solution; Bromothymol Blue 0.04% (w/v) Aqueous pH 6.0 to 7.6

**CAS No.:** 34722-90-2

**Molecular Weight:** 646.35

**Chemical Formula:** C<sub>27</sub>H<sub>27</sub>Br<sub>2</sub>O<sub>5</sub>SSNa

**Product Codes:** J.T. Baker: D472 Mallinckrodt: H031

### Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Bromothymol Blue Sodium Salt	34722-90-2	< 1%	No
Water	7732-18-5	> 99%	No

### Hazards Identification

#### Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

J.T. Baker SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

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Health Rating: 1 - Slight  
Flammability Rating: 0 - None  
Reactivity Rating: 0 - None  
Contact Rating: 0 - None  
Lab Protective Equip: GOGGLES; LAB COAT  
Storage Color Code: Orange (General Storage)

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**Potential Health Effects**

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**Inhalation:**

No adverse health effects expected from inhalation.

**Ingestion:**

Large doses may cause stomach upset.

**Skin Contact:**

Not expected to be a health hazard. May cause slight irritation.

**Eye Contact:**

Splashes may cause irritation.

**Chronic Exposure:**

No information found.

**Aggravation of Pre-existing Conditions:**

No information found.

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**. First Aid Measures**

**Inhalation:**

Not expected to require first aid measures.

**Ingestion:**

If large amounts were swallowed, give water to drink and get medical advice.

**Skin Contact:**

Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:**

Wash thoroughly with running water. Get medical advice if irritation develops.

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## **. Fire Fighting Measures**

### **Fire:**

Not considered to be a fire hazard.

### **Explosion:**

Not considered to be an explosion hazard.

### **Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire.

### **Special Information:**

Use protective clothing and breathing equipment appropriate for the surrounding fire.

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## **. Accidental Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

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## **. Handling and Storage**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage, direct sunlight, and freezing. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

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## **. Exposure Controls/Personal Protection**

### **Airborne Exposure Limits:**

None established.

### **Ventilation System:**

Not expected to require any special ventilation.

### **Personal Respirators (NIOSH Approved):**

Not expected to require personal respirator usage.

### **Skin Protection:**

Wear protective gloves and clean body-covering clothing.

### **Eye Protection:**

Safety glasses.

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## Physical and Chemical Properties

**Appearance:**

Light green to clear amber solution.

**Odor:**

Odorless.

**Solubility:**

Completely soluble in water.

**Specific Gravity:**

ca. 1.0

**pH:**

No information found.

**% Volatiles by volume @ 21C (70F):**

No information found.

**Boiling Point:**

ca. 100C (ca. 212F)

**Melting Point:**

ca. 0C (ca. 32F)

**Vapor Density (Air=1):**

Essentially the same as water.

**Vapor Pressure (mm Hg):**

Essentially the same as water.

**Evaporation Rate (BuAc=1):**

Essentially the same as water.

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## 0. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

No hazardous decomposition products.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

No incompatibility data found.

**Conditions to Avoid:**

No information found.

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## 1. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Bromothymol Blue Sodium Salt (34722-90-2)	No	No	None
Water (7732-18-5)	No	No	None

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## 2. Ecological Information

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

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## 3. Disposal Considerations

Dilute with water and flush to sewer if local ordinances allow, otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## 4. Transport Information

Not regulated.

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## 5. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Bromothymol Blue Sodium Salt (34722-90-2)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Bromothymol Blue Sodium Salt (34722-90-2)	No	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302- RQ	TPQ	-----SARA 313----- List	Chemical Catg.
Bromothymol Blue Sodium Salt (34722-90-2)	No	No	No	No
Water (7732-18-5)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Bromothymol Blue Sodium Salt (34722-90-2)	No	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No  
RA 311/312: Acute: No      Chronic: No      Fire: No      Pressure: No  
activity: No      (Mixture / Liquid)

**Australian Hazchem Code:** No information found.

**Poison Schedule:** No information found.

### WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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## 6. Other Information

**NFPA Ratings:** Health: 0 Flammability: 0 Reactivity: 0

### Label Hazard Warning:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

### Label Precautions:

None.

**Label First Aid:**  
Not applicable.

**Product Use:**  
Laboratory Reagent.

**Revision Information:**  
Mixture. New 16 section MSDS format, all sections have been revised.

**Disclaimer:**

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