

# MATERIAL SAFETY DATA SHEET (MSDS)

## MATERIAL SAFETY DATA SHEET

EM SCIENCE

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer.....:

EM SCIENCE

A Division of EM Industries  
P.O. Box 70  
480 Democrat Road  
Gibbstown, N.J. 08027

Preparation Date.: 3/1/91

Information Phone Number.: 856-423-6300  
Hours: Mon. to Fri. 8:30-5  
Chemtrec Emergency Number: 800-424-9300  
Hours: 24 hrs a day

Catalog Number(s):

BX1562

Product Name:

Bromothymol Blue, 0.04% Solution

Synonyms:

None

Chemical Family:

Phenylmethane Dye Solution

Formula:

$C_{27}H_{27}Br_2NaO_5S$  in solution

Molecular Weight.:

646.39 (dye)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Appr %
Bromothymol Blue, Water Soluble	34722-90-2	0.04%
Water	7732-18-5	99.96%

Approx. % as wt/vol

### 3. HAZARDS IDENTIFICATION

#### First Aid / Emergency Overview

Handling care generally in keeping with safe laboratory practices is recommended.

Appearance:

Green liquid; at pH 6.0 yellow, at pH 7.6 blue

## **POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)**

### **Symptoms of Exposure:**

harmful effects indicated from available information. Handling care generally in keeping with safe laboratory practices is recommended.

### **Medical Cond. Aggravated by Exposure:**

Data not available.

### **Routes of Entry:**

Inhalation, ingestion

### **Carcinogenicity:**

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

## **4. FIRST AID MEASURES**

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### **Emergency First Aid:**

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Skin: Immediately flush thoroughly with large amounts of water.

Eyes: Immediately flush thoroughly with water for at least 15 minutes.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

Ingestion: If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

## **5. FIRE FIGHTING MEASURES**

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**Flash Point (F):** Noncombustible

**Flammable Limits LEL (%):** N/A

**Flammable Limits UEL (%):** N/A

**Extinguishing Media:**

Use any suitable for adjacent material.

### **Fire Fighting Procedures:**

Wear self-contained breathing apparatus.

### **Fire & Explosion Hazards:**

None indicated

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Spill Response:**

Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal

Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under Disposal. Comply with Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

## **HANDLING AND STORAGE**

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### **Handling & Storage:**

Keep container closed. Store at controlled room temperature. Do not breathe solution mist. Do not get in eyes, on skin, or on clothing.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:**

#### **Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:**

Material should be handled or transferred in an approved fume hood or with adequate ventilation. Protective gloves should be worn to prevent skin contact (Neoprene or equivalent) Safety glasses with side shields should be worn at all times.

#### **Work/Hygenic Practices:**

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

## **EXPOSURE GUIDELINES**

### **OSHA - PEL:**

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Bromothymol Blue, Water Soluble							
Water							

### **ACGIH - TLV:**

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Bromothymol Blue, Water Soluble							
Water							

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Boiling Point (C 760 mmHg) :** N/A

**Melting Point (C) :** N/A

Specific Gravity ( $H_2O = 1$ ) : N/A

Vapor Pressure (mm Hg) : N/A

Percent Volatile by vol (%) : N/A

Vapor Density (Air = 1) : N/A

Evaporation Rate (BuAc = 1) : N/A

Solubility in Water (%) : Soluble

Appearance :

Green liquid; at pH 6.0 yellow, at pH 7.6 blue

## 10. STABILITY AND REACTIVITY

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Stability: Yes

Hazardous Polymerization:

Does not occur

Hazardous Decomposition:

Traces of bromine,  $SO_x$ ,  $CO_x$

Conditions to Avoid:

None indicated

Materials To Avoid:

☐ Water

☐ Acids

☐ Bases

☐ Corrosives

☐ Oxidizers

☒ Other: none indicated

## 11. TOXICOLOGICAL INFORMATION

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Toxicity Data

None established.

Toxicological Findings:

None

Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

## 12. DISPOSAL CONSIDERATIONS

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E Waste Numbers:

Treatment:

Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste



disposal site (TSD) should be accomplished.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

## 1. TRANSPORT INFORMATION

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**DOT Proper Shipping Name:**  
non-regulated

**DOT ID Number :**  
none

## 14. REGULATORY INFORMATION

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**TSCA Statement:**

This product is a "Mixture". The CAS numbers of all components are listed on the TSCA Inventory.

Component	SARA EHS (302)	SARA EHS TPQ (lbs)	CERCLA RQ (lbs)
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Bromothymol Blue, Water Soluble

Water

Component	OSHA Floor List	SARA 313	DeMinimis for SARA 313 (%)
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Bromothymol Blue, Water Soluble

Water

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

## 15. OTHER INFORMATION

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**Comments:**  
None

**NFPA Hazard Ratings:**

Health : 0  
Flammability : 0  
Reactivity : 0  
Special Hazards :

Revision History: 9/29/86 6/30/87 8/10/88

| = Revised Section

N/A = Not Available

N/E = None Established

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