

# MATERIAL SAFETY DATA SHEET



Conforms to 93/112/EC and ISO 11014-1

## 1. Chemical Product and Company Identification

**Product Name:** Bromophenol Blue

**Product Number:** HS-603

### Chemical Names/

#### Description:

3,3',5,5'-Tetrabromophenol sulfonphthalein

### Manufacturer

National Diagnostics  
305 Patton Drive  
Atlanta, GA 30336

### Telephone Numbers

(800) 526-3867  
(404) 699-2121

### Emergency Numbers

#### Chemtrec

**(800) 424-9300 (U.S. & Canada)**  
**01-703-527-3887 (outside U.S. & Canada)**

## 2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #	TLV (Units)
Bromophenol Blue	99	115-39-9	204-086-2	none established

## 3. Hazards Identification

### Appearance and Odor

Tan to orange, light pink to purple or red crystalline powder.

#### EMERGENCY OVERVIEW - IMMEDIATE HAZARD

CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION SKIN, EYES, AND RESPIRATORY TRACT.

#### EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING:

CHRONIC HAZARDS ARE NOT DETERMINED.

### Potential Health Effects

#### Inhalation

May cause irritation to the respiratory tract.

#### Ingestion

Large oral doses may cause irritation to the gastrointestinal tract.

#### Skin

May cause irritation to the skin.

**Eyes**

May cause irritation to the eyes.

**Signs and Symptoms of Overexposure****Inhalation**

Coughing and shortness of breath.

**Ingestion**

Effects not determined.

**Skin**

Redness and pain.

**Eyes**

Redness and pain.

**Carcinogenicity**

Not listed as a known or anticipated carcinogen by NTP or IARC.

**Mutagenicity**

No information found.

**Reproductive Toxicity**

No information found.

**Teratogenic Effects**

No information found.

**Routes of Entry**

No information found.

**Target Organ Statement**

No information found.

**4. First Aid Measures****Inhalation**

Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

**Skin**

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes**

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**5. Fire Fighting Measures**

Flash Point	N.A.	Flammable Limits	N.A.
Flash Point Method	N.A.	Autoignition temperature	N.A.

**Extinguishing media**

Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

**Protective Equipment**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing

apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### **Hazardous Combustion Products**

Burning may produce bromines, sulfur oxides, carbon dioxide, and carbon monoxide.

### **Unusual Fire and Explosion Hazards**

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

NFPA Codes: Health 1 Flammability 1 Reactivity 0

## **6. Accidental Release Measures**

### **Steps to be taken in case material is released or spilled**

Remove all sources of ignition. Ventilate area. Clean up in a manner that does not disperse dust. Use non-sparking tools and equipment. Reduce airborne dust by moistening with water. Pick up for recovery or disposal and place in a closed container.

### **Waste Disposal Method**

Disposal must be made in accordance with applicable federal, state, and local regulations.

### **Personal Precautions**

Wear appropriate protective equipment as specified in section 8.

## **7. Handling and Storage**

### **Handling**

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

### **Storage**

Keep in a tightly closed container, stored in a cooled, dry, ventilated area away from sources of heat or ignition. Protect from physical damage. Isolate from incompatible materials (section 10).

### **Storage Temperature**

room temperature

### **Disposal**

Observe all national, state, and local regulations regarding disposal.

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

### **Airborne Exposure Limits**

Component: Bromophenol Blue

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit  
(PEL):

### **Engineering Controls**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborn Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

### **Respiratory Protection**

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

### **Eye Protection**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash

fountain and quick-drench facilities in work area.

### Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

### Other Control Measures

N.A.

## 9. Physical Properties

<b>Boiling point</b>	279C (decomposes)	<b>Evaporation Rate</b>	No Data
<b>Melting point</b>	273C	<b>Solubility in water</b>	0.4g/100g @ 20C
<b>Vapor pressure (mmHg)</b>	No Data	<b>pH</b>	No Data
<b>Vapor density (Air = 1)</b>	No Data	<b>Specific gravity (H<sub>2</sub>O = 1)</b>	No Data
<b>% volatile by volume</b>	0		

## 10. Stability and Reactivity

### Stability

Stable under ordinary conditions of use and storage.

### Conditions to Avoid

Heat, flames, ignition sources, and incompatibles.

### Hazardous Decomposition Products

Burning may produce bromines, sulfur oxides, carbon dioxide, and carbon monoxide.

### Hazardous Polymerization

Will not occur

### Incompatibles

Bromophenol Blue:

Strong oxidizers.

## 11. Toxicological Information

### Product LD50 Values

Bromophenol Blue Oral Rat LD50 (mg/kg): No Data

Bromophenol Blue Dermal Rabbit LD50 (mg/kg): No Data

### Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Bromophenol Blue	No	No	None

## 12. Ecological Information

### **Bromophenol Blue**

No information found.

## 13. Disposal Considerations

Observe all national, state, and local regulations regarding disposal.

## 14. Transport Information

### **D.O.T.**

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

### **I.A.T.A.**

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

### **I.M.O.**

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

## 15. Regulatory Information

### **United States**

#### **TSCA Regulatory Statement**

All intentional ingredients are listed on the TSCA Inventory.

#### **SARA 311/312 Hazard Categories**

Component	Fire	Pressure	Reactivity	Acute	Chronic
Bromophenol Blue	No	No	No	Yes	No

### **Europe**

#### **EEC Regulatory**

All intentional ingredients are listed on the European EINECS Inventory.

## 16. Other Information

**NFPA Codes: Health 1 Flammability 1 Reactivity 0**

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