



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
COLUMBUS, WISCONSIN 53925-0008
(920) 623-2140
FAX (920) 623-2577

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Bromothymol Blue, 0.04%, solution

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

N4335 Temkin Road

Columbus, Wisconsin 53925

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

1 (920) 623-2140

Date Prepared

02-28-2005

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Bromothymol blue powder\*, 34722-90-2, Not available, Not available, Not available, >1%

\* Synonym: Bromothymol blue sodium salt

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Rows: Boiling Point (Not available), Specific Gravity (H2O = 1) (1.005), Vapor Pressure (mm Hg) (Not available), Melting Point (Not available), Vapor Density (AIR = 1) (Not available), Evaporation Rate (Butyl Acetate = 1) (Not available)

Solubility in Water
Completely soluble

Appearance and Odor
Blue, translucent liquid

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: Nonflammable, Not applicable, Not applicable

Extinguishing Media

Suitable to extinguish the supporting flame. Water spray, dry chemical, carbon dioxide, alcohol foam.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Unknown to CCI
	Stable	X		

**Incompatibility Materials to Avoid**

Not Available

**Hazardous Decomposition or Byproducts**

carbon oxides, sulfur oxides, halogenated compounds

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		Not available.
	Will Not Occur	X	

**Section VI Health Hazard Data****Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

	Yes	Yes	Yes
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**Health Hazards (Acute and Chronic)**

SKIN: May cause irritation. EYE: Causes eye irritation. INHALATION: May be harmful if inhaled.

Material may be irritating to the mucous membranes and upper respiratory tract.

INGESTION: May be harmful if swallowed.

**Carcinogenicity****NTP****IARC Monographs****OSHA REGULATED?**

	Not listed	Not listed	Not listed
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**Signs and Symptoms of Exposure.**

Irritation to eyes, skin, mucous membranes and upper respiratory tract characterized by itching, swelling, redness

and pain. Gastrointestinal discomfort and possible pain upon ingestion.

**Medical Conditions Generally Aggravated by Exposure**

Unknown to CCI.

**Emergency and First Aid Procedures**

INGESTION: If swallowed, wash out mouth with water if person is conscious. EYES: In of contact, immediately flush with large amounts of water for at least 15 minutes. INHALATION: If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. SKIN: Immediately wash skin with soap and large amounts of water. CALL A PHYSICIAN.

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Evacuate area. Wear chemical-resistant goggles, apron and rubber gloves.

Absorb on any suitable absorbant and dispose of in regular trash. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose in accordance with all Federal, state, and local regulations.

**Precautions to be Taken in Handling and Storing**

Keep in tightly closed container, stored in a cool, dry, ventilated, corrosion-resistant area. Protect against physical damage. Keep containers upright and tightly closed.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

**Section VII Control Measures**

Respiratory Protection (Specify Type) Not needed.

Ventilation	Local Exhaust	Recommended.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Appropriate chemical-resistant gloves. Eye Protection Chemical Safety goggles.

Other Protective Clothing or Equipment Coveralls, rubber apron, impervious boots.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Do not breathe vapors. Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Wash thoroughly after handling. Avoid prolonged or repeated exposure.

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