

# **Safety Data Sheet**

## 1. IDENTIFICATION

Product Identifier: Bromothymol Blue Indicator, 0.04-1% w/v Aqueous

**Product Code(s):** NC-1949, NC-1906, B1013, B1020, B1021

Synonyms: BTB, Sodium Salt Solution; 3,3'-Dibromothymolsulfonphthalein, Sodium Salt Solution

**Recommended Use:** For manufacturing, industrial, and laboratory use only. Use as alaboratory reagent.

Uses Advised Against: Not for food, drug, or household use.

**Supplier:** The Science Company

7625 W Hampden Ave #14 Lakewood CO 80227 Phone: (303) 777-3777 Fax: (303) 777-3331

**Emergency Phone Number:** For health emergency, call poison control: (800)222-1222.

#### 2. HAZARDS IDENTIFICATION

Hazard Classifications: This product is classified as not hazardous under OSHA's Hazard Communication

Standard, 29 CFR 1910.1200 (HCS) and the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). However, all chemicals handled and

used in the workplace should be treated with caution.

Signal Word: Not applicable.

Hazard Statements: Not applicable.

Pictograms: Not applicable.

**Precautionary Statements:** 

**Prevention:** Not applicable.

Response: Not applicable.

Storage: Not applicable.

**Disposal:** Not applicable.

**Hazards Not Otherwise** 

Classified:

Not applicable.

Toxicity Statement: Not applicable.

Product: Bromothymol Blue Indicator, 0.04-1% w/v Aqueous

Revision Date: 05/19/2016 1/7

#### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H <sub>2</sub> O	≥ 99.0
Bromothymol Blue,	3,3'-Dibromothymolsulfonphthalein,	34722-90-2	NaC27H27O5SBr2	≤ 1.00
Sodium Salt	Sodium Salt	34722-90-2	NaO2/112/O50D12	≥ 1.00

Trade Secret Statement: Not applicable.

#### 4. FIRST AID MEASURES

First Aid Procedures:

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Call a physician if symptoms occur.

**Ingestion:** Rinse mouth. Do not induce vomiting unless directed to doso by medical personnel. If

vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center if symptoms

occur.

**Skin Contact:** Remove contaminated clothing and shoes. Wash skin with soap and plenty of waterfor at

least 15 minutes. Wash clothing before reuse. Call a physician if symptoms occur.

Eye Contact: Check for and remove contact lenses if present and easy to do. Immediately flush eyes with

gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids

occasionally. Call a physician if symptoms occur.

General Advice: Poison information centers in each state can provide additional assistancefor scheduled

poisons. Ensure that medical personnel and those providing first aid are aware of the

material(s) involved and take precautions to protect themselves.

Symptoms and Effects: Irritation, headache, nausea, vomiting, diarrhea. May cause irritation to skin, eyes,

respiratory tract, and gastrointestinal tract.

Immediate Medical Care/

Special Treatment:

Get medical attention if feeling unwell or concerned. Treatsymptomatically.

#### 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream, as it may scatter and spread fire.

**Hazardous Combustion** 

Products:

Carbon oxides, sulfur oxides, sodium oxides, hydrogen bromide.

Specific Hazards: Excessive thermal conditions may cause decomposition and yield corrosive and/or toxic

fumes.

Special Protective Equipment/

**Precautions for Firefighters:** 

As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. In the event of

fire and/or explosion, do not breathe fumes.

Product: Bromothymol Blue Indicator, 0.04-1% w/v Aqueous

Revision Date: 05/19/2016 2/7

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment:

Isolate hazard area and keep unnecessary and unprotected personnel away from the area of leak or spill. Wear appropriate personal protective equipment (see Section 8). Avoid

contact with eyes, skin, and clothing.

Emergency Procedures: In case of chemical emergency, or if unsure how to address an accidental release, consult a

professional (see Section 1).

**Methods for Containment:** Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer,

basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover liquid when possible.

Methods for Cleanup: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and

place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be absorbed with acetone or alcohol. Never return spills in original containers for reuse. Clean up in accordance with

all applicable regulations.

#### 7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see Section 8). Provide sufficient air exchange and/or

exhaust in work areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and

precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store away from incompatible materials (see Section

10). Store in original container. Keep containers tightly closed and upright. Keep away from

food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal

of this product.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:** Water: No information found.

Bromothymol Blue, Sodium Salt: No information found.

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not

been established, maintain airborne levels to an acceptable level.

**Personal Protective Measures:** 

**Eye/Face Protection:** Wear safety glasses with side shields or goggles. Maintain approved eye wash station and

accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical

resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be

permissible under certain circumstances where airborne concentrations are expected to

Product: Bromothymol Blue Indicator, 0.04-1% w/v Aqueous

Revision Date: 05/19/2016 3/7

exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or in any other circumstances where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective Equipment:

Ensure that glove material is compatible with this product. This information is available from

glove manufacturers.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

**Appearance:** Dark green, translucent liquid.

Odor: Odorless.

Odor Threshold: No information found.

Formula Weight: Mixture.

**pH:** No information found.

Melting/Freezing Point:  $\approx 0 \,^{\circ}\text{C}$ Boiling Point/Range:  $\approx 100 \,^{\circ}\text{C}$ 

**Decomposition Temperature:** No information found.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Flammability: Not flammable.

Flammability/Explosive Limits: Not applicable.

**Solubility:** Miscible with water.

Vapor Pressure: No information found.

Specific Gravity: 1.00 (Water = 1)

Evaporation Rate: No information found.

Viscosity: No information found.

Partition Coefficient (n-octanol/water):

Vapor Density:

No information found.

No information found.

#### 10. STABILITY AND REACTIVITY

Reactivity Data: No information found.

Chemical Stability: Stable under normal conditions.

**Conditions to Avoid:** Heat, incompatible materials.

Incompatible Materials: Strong oxidizers.

**Hazardous Decomposition** 

Carbon oxides, sulfur oxides, sodium oxides, hydrogen bromide.

Products:

**Possibility of Hazardous** 

May react vigorously or violently if exposed to extreme thermal conditions or in contact with

**Reactions:** the incompatible materials listed above.

Product: Bromothymol Blue Indicator, 0.04-1% w/v Aqueous

Revision Date: 05/19/2016 4/7

Hazardous Polymerization: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

**Routes of Exposure:** Inhalation, ingestion, skin contact, eye contact.

Acute Effects: May cause irritation to skin, eyes, respiratory tract, and gastrointestinal tract.

Chronic Effects: No information found.

Toxicological Data: Water: Not applicable.

Bromothymol Blue, Sodium Salt: No information found.

Symptoms of Exposure: Irritation, headache, nausea, vomiting, diarrhea.

Carcinogenic Effects: No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicological Data:** Water: Not applicable.

Bromothymol Blue, Sodium Salt: No information found.

Persistence and Degradability: No information found.

**Environmental Effects:** Not expected to be hazardous to the environment. However, the possibility of an

environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

#### 13. DISPOSAL INFORMATION

**Disposal Instructions:** All wastes must be handled in accordance with local, state, and federal regulations.

Minimize exposure to product waste (see Section 8).

**Contaminated Packaging:** Because emptied containers retain product residue, follow label warnings even after

container is emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: No information found.

#### 14. TRANSPORT INFORMATION

**DOT:** Not regulated.

**Environmental Hazard** 

Regulations:

No information found.

Other Transport Precautions: No information found.

Product: Bromothymol Blue Indicator, 0.04-1% w/v Aqueous

Revision Date: 05/19/2016 5/7

# 15. REGULATORY INFORMATION

## U.S. Federal Regulations:

**OSHA:** This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

**TSCA Inventory:** All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

Hazard Category	List (Yes/No)	
Section 311 – Hazardous Chemical	No	
Immediate Hazard	No	
Delayed Hazard	No	
Fire Hazard	No	
Pressure Hazard	No	
Reactivity Hazard	No	

Section 313: No information found.

CERCLA Reportable Quantities: No information found.

#### International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	N/A
Canada	Domestic Substances List (DSL)	N/A
Canada	Non-Domestic Substances List (NDSL)	N/A
China	Inventory of Existing Chemical Substances in China (IECSC)	N/A
Europe	European Inventory of Existing Commercial Chemical Substances	N/A
	(EINECS)	
Europe	European List of Notified Chemical Substances (ELINCS)	N/A
Japan	Inventory of Existing and New Chemical Substances (ENCS)	N/A
Korea	Existing Chemicals List (ECL)	N/A
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	N/A

<sup>\*</sup>A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s).

Product: Bromothymol Blue Indicator, 0.04-1% w/v Aqueous

Revision Date: 05/19/2016 6/7

## 16. OTHER INFORMATION

**Disclaimer:** The Science Company provides the information in this Safety Data Sheet in the belief that it

is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. The Science Company makes and gives no representations or warranties with respect to the information contained herein or the product to which it refers, whether express, implied, or statutory, including without limitation, warranties of accuracy, completeness, merchantability, non-infringement, performance, safety, suitability, stability, and fitness for a particular purpose. No warranty against infringement of any patent, copyright or trademark is made or implied. This SDS is intended only as a guide to the appropriate handling of the material by a properly trained person. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. Accordingly, The Science Company assumes no liability whatsoever for the use of or reliance upon this information including results obtained,

incidental or consequential damages, or lost profits.

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**Reason for Revision:** Update of Section 9 over 11/18/2015 version.

Product: Bromothymol Blue Indicator, 0.04-1% w/v Aqueous

Revision Date: 05/19/2016 7/7