



BIOPHARM INC.

SAFETY DATA SHEET

1. Identification:

Product Identifier: Bromophenol Blue Indicator Solution
Product code: BB8804 = 0.4% w/v BB8028 = 0.04% w/v BB8026 = 0.1% w/v
Synonym(s): Bromophenol Blue Indicator
pH 3.0 = Yellow pH 4.6 = Blue
Recommended use: Manufacture of other chemical products, professional, scientific, and technical activities.
Recommended restrictions: None known.

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.
Address: 187 South Tilley Road
Hatfield, AR 71945
Telephone: (870) 389-6114
Website: www.bphchem.com
E-mai support@bphchem.com
Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements: None Required

Signal word: None

Hazard statement: None

Precautionary statement:

Prevention Avoid contact with eyes, skin and clothing. Wear appropriate protective equipment. Avoid breathing vapor. Use with adequate ventilation. Avoid prolonged or repeated exposure.

Response Get medical attention/advice if you feel unwell

Storage Store bottles tightly capped and upright. Store in well-ventilated place. Store locked up.

Disposal To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.

Hazard(s) not otherwise classified (HNOC): None identified.

Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
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Bromophenol Blue Sodium Salt	62625-28-9	0.04-0.1
Water	7732-18-5	Balance

4. First-aid measures

Inhalation:	Remove person to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion:	Never give anything by mouth to an unconscious person. Do not induce vomiting. Obtain medical attention.
Skin contact:	Flood area with water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing and clean shoes thoroughly before reuse. Get medical attention immediately if symptoms occur.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes while holding lids gently, but firmly, apart. Lift upper and lower lids occasionally to ensure thorough flushing under them. Obtain medical attention.
Most important symptoms/effects, acute and delayed:	No information available.
General information:	No information found.

5. Fire-fighting measures

Suitable extinguishing media:	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.		
Unsuitable extinguishing media:	No information available.		
Specific hazards arising from the chemical	Keep product and container away from heat and sources of ignition.		
Special protective equipment and precautions for firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.		
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.		
NFPA Codes:	Health: 0	Flammability: 0	Reactivity: 0

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep out of low areas. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material.
Methods and materials for containment and cleaning up:	Ventilate area. Wear protective clothing. Use an absorbent material such as sand, sawdust, or vermiculite to absorb small spills or any leakage that cannot be recovered for recycling. Wash area thoroughly with water after recovering released material. Avoid dust formation. Minimize dust generation and accumulation. For waste disposal, see section 13 of the SDS.

Environmental precautions: Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses, or onto the ground. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling: Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Avoid dust formation.

Conditions for safe storage, including any incompatibilities: Store bottles tightly capped and upright. Keep in a cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering measures: Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Eye/face protection: Wear protective eyeglasses or chemical safety goggles.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance: Blue liquid

Odor: Odorless

Odor threshold: No data available

Vapor Pressure (mm Hg): No data available

Vapor density (Air = 1): >1.0

pH: No data available

Relative density: No data available

Melting point/freezing point: No data available

Solubility in Water: Complete

Boiling Point (°F): No data available

Flash point: No data available

Evaporative Rate (H₂O = 1): No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits

Flammability limit - lower No data available

Flammability limit - upper No data available

Explosive limit - lower No data available

Explosive limit - upper No data available

Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Other information:	
Specific Gravity (H₂O = 1):	No data available
Percent Volatile by Volume:	No data available

10. Stability and reactivity

Reactivity:	None known based on information available.
Chemical stability:	Stable under ordinary conditions of use and storage.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Incompatible materials.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	None under normal use conditions

11. Toxicological information

Information on likely routes of exposure:

Ingestion:	May be harmful if swallowed.
Inhalation:	May irritate the respiratory tract
Skin Contact:	May cause mild skin irritation.
Eye Contact:	May cause discomfort to eyes upon contact.

Information on toxicological effects No information available.

Acute toxicity No acute toxicity information is available for this product.

Component	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
Bromophenol Blue	No data available	No data available	No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause irritation to skin with redness and itching.
Serious eye damage/irritation	Splashes may cause irritation to the eyes with redness, pain, watering, and itching.
Respiratory Sensitization	May cause respiratory tract and mucous membrane irritation.
Skin sensitization	No data available.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
Mutagenic effects	No data available.

Reproductive effects	No data available.
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	No data available.

12. Ecological information

Ecotoxicity:	Do not empty into drains. Harmful to aquatic life with long lasting effects.
Persistence and degradability:	No data available
Bioaccumulation/ Accumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13. Disposal considerations

Waste disposal methods:	To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.
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14. Transport information

DOT:	Not regulated as dangerous goods.
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15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not applicable
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – No
	Delayed Hazard – No
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard – No

Other Federal regulations

Clean Air Act	Not applicable
Clean Water Act	Not applicable
California Prop 65	This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

Creation date June 7, 2019

Disclaimer The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.