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BROMOPHENOL BLUE

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION:

Synonyms: Tetrabromophenoltetrabromosulfonene-phthalein; BPB

CAS No.: 115-39-9

Molecular Weight: 669.96

Chemical Formula: C₁₉H₁₀Br₄O₅S

2. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Bromophenol Blue	115-39-9	99%	No

3. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Blue-black solid **CAUTION!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. This is expected to be a low hazard for usual industrial handling.

Target Organs: None.

Potential Health Effects

Eyes: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling.

Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.

Chronic: Allergic reactions have occurred with similar compounds.

4. FIRST AID MEASURES:

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. **NEVER** give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES:

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire use water spray to cool fire expose containers. Use water spray, dry chemical, carbon dioxide, or appropriate foam. Use agent most appropriate to extinguish fire.

Flash Point: Not available.

Auto-ignition Temperature: Not available.

Explosion Limits, Lower / Upper: Not available

NFPA Rating: (estimated) Health: 0; Flammability: 0; Instability: 0.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA - Final PEL's</u>
Bromophenol Blue	None listed	None listed	None listed

OSHA Vacated PELs: Bromophenol Blue : No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Solid

Appearance: Blue-black

Odor: Odorless.

Freezing/Melting Point: 273 deg C

pH: Not available.

Vapor Pressure (mm Hg): negligible.

Vapor Density (Air = 1): Not available.

Evaporation Rate: Negligible.
Viscosity: Not available.
Boiling Point: Not available.
Decomposition Temperature: 279 deg C
Solubility: Soluble.
Specific Gravity/Density: Not available.

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Strong oxidizing agents, strong reducing agents, strong acid, strong bases.

Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur, carbon dioxide, hydrogen bromide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

RTECS: CAS# 115-39-9: SJ7453000

LD50/LC50: CAS# 115-39-9: Not available

Carcinogenicity: CAS# 115-39-9: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information found.

Teratogenicity: No information available..

Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: Inconclusive results in short-term tests..

Other Studies:

12. ECOLOGICAL INFORMATION:

Environmental Fate: No information available.

Environmental Toxicity: No data available.

13. DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

14. TRANSPORT INFORMATION:

Not regulated.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA

CAS# 115-39-9 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 115-39-9 is not present on state lists from CA, PA, MA, MN, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN/INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazardous Symbols: Not available.

Risk Phrases: Not available

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 115-39-9: No information available.

Canada - DSL/NDSL

CAS# 115-39-9 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of Not controlled.

CAS# 115-39-9 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

16. DISCLAIMER INFORMATION:

DISCLAIMER:

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