

# Bromophenol Blue 0.04% - 0.1% w/v Aqueous

# **SECTION 1. IDENTIFICATION**

Product Identifier Bromophenol Blue 0.04% - 0.1% w/v Aqueous

Other Means of Identification Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-, S,S-dioxide, monosodium salt

Product Code(s) BR4130, BR4150
Product Family Inorganic solution

Restrictions on Use Laboratory.

Restrictions on Use None known.

Supplier Identifier Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995

Emergency Phone No. CANUTEC CANADA, 613-996-6666, 24 Hours

SDS No. 0376

Date of Preparation February 16, 2016

# SECTION 2. HAZARD IDENTIFICATION

### Classification

Not classified under any hazard class.

#### **Label Elements**

Not applicable

#### Other Hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture:

Chemical Name	CAS No.	%	Other Identifiers	
Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2, 6-dibromo-, S,S-dioxide, monosodium salt	34725-61-6	0.04 - 0.1	Bromophenol Blue	
Water	7732-18-5	99.96 - 99.9	Dihydrogen Oxide	

# **SECTION 4. FIRST-AID MEASURES**

### First-aid Measures

#### Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing.

#### Skin Contact

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

# Ingestion

Product Identifier: Bromophenol Blue 0.04% - 0.1% w/v Aqueous

Date of Preparation: February 16, 2016 Page 01 of 06

Do not induce vomiting. Rinse mouth with water. If vomiting occurs, have person lie on side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

#### **First-aid Comments**

All first aid procedures should be periodically reviewed by a doctor familiar with the material and its condition of use in the workplace.

### Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause moderate to severe irritation.

### Immediate Medical Attention and Special Treatment

#### Special Instructions

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### **SECTION 5. FIRE-FIGHTING MEASURES**

## **Extinguishing Media**

### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

### Unsuitable Extinguishing Media

None known.

#### Specific Hazards Arising from the Product

Does not burn. Closed containers may rupture violently when heated releasing contents.

Not known to generate any hazardous decomposition products in a fire.

# Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Emergency responders: use the personal protective equipment recommended in Section 8 of this safety data sheet. Remove or isolate incompatible materials as well as other hazardous materials. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment.

#### **Environmental Precautions**

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

# **SECTION 7. HANDLING AND STORAGE**

# Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. Avoid generating dusts. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty.

#### Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated. Store in the original, labelled, shipping container.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product Identifier: Bromophenol Blue 0.04% - 0.1% w/v Aqueous

Date of Preparation: February 16, 2016 Page 02 of 06

#### **Control Parameters**

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Water	Not established		Not established			

Consult local authorities for provincial or state exposure limits.

# **Appropriate Engineering Controls**

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

#### **Individual Protection Measures**

#### **Eye/Face Protection**

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

No specific guidelines are available. Contact chemical manufacturer/supplier for advice.

### Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Basic Physical and Chemical Properties**

Appearance Green liquid.
Odour Odourless
Odour Threshold Not available
pH Not available

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Initial Boiling Point/RangeNot availableFlash PointNot applicableEvaporation RateNot availableFlammability (solid, gas)Not available

Upper/Lower Flammability or

Explosive Limit

Not available (upper); Not available (lower)

Vapour Pressure Not available
Vapour Density (air = 1) Not available
Relative Density (water = 1) Not available

Solubility Soluble in water; Not available (in other liquids)

Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition Temperature Not available

Decomposition Temperature Not available

Viscosity Not available (kinematic); Not available (dynamic)

Other Information

Physical State Liquid

### SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

# Chemical Stability

Normally stable.

Product Identifier: Bromophenol Blue 0.04% - 0.1% w/v Aqueous

Date of Preparation: February 16, 2016 Page 03 of 06

# Possibility of Hazardous Reactions

None known.

#### **Conditions to Avoid**

Incompatible materials.

# Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

# **Hazardous Decomposition Products**

None known.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

# **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Phenol, 4,4'-(3H-2, 1-benzoxathiol-3-ylidene)bis [2,6-dibromo-, S,S-dioxide, monosodium salt	Not available	Not available	Not available
Water	Not available	> 89840 mg/kg (rat)	Not available

### Skin Corrosion/Irritation

Not a skin irritant.

# Serious Eye Damage/Irritation

Not an eye irritant.

## STOT (Specific Target Organ Toxicity) - Single Exposure

### Inhalation

No information was located.

# Ingestion

No information was located.

#### Aspiration Hazard

Not known to be an aspiration hazard.

# STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

# Respiratory and/or Skin Sensitization

No information was located.

# Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Phenol, 4,4'-(3H-2, 1-benzoxathiol-3-ylidene)bis [2,6-dibromo-, S,S-dioxide, monosodium salt	Not Listed	Not designated	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed

Product Identifier: Bromophenol Blue 0.04% - 0.1% w/v Aqueous

Date of Preparation: February 16, 2016 Page 04 of 06

### Reproductive Toxicity

### **Development of Offspring**

Not known to harm the unborn child.

### Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

#### Effects on or via Lactation

No information was located.

### **Germ Cell Mutagenicity**

Not known to be a mutagen.

#### Interactive Effects

No information was located.

### SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations.

# **SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15. REGULATORY INFORMATION**

### Safety, Health and Environmental Regulations

#### Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

# **SECTION 16. OTHER INFORMATION**

SDS Prepared By Alphachem Limited Phone No. (905)-821-2995

Date of Preparation February 16, 2016

Date of Last Revision May 24, 2016

References Alfa Aesar database. Fisher Scientific database.

Disclaimer This document is offered only as a guide in the safe handling of the above product, and has

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reliance on any information herein.

Product Identifier: Bromophenol Blue 0.04% - 0.1% w/v Aqueous

Date of Preparation: February 16, 2016 Page 05 of 06

Product Identifier: Bromophenol Blue 0.04% - 0.1% w/v Aqueous

Date of Preparation: Page 06 of 06