

# Bromothymol Blue (0.01% - 1.0%) Aqueous

# **SECTION 1. IDENTIFICATION**

**Product Identifier** Bromothymol Blue (0.01% - 1.0%) Aqueous

Other Means of Identification

None

Product Code(s)

BR4430, BR4431, BR4434, BR4435

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. Infotrac, 1-800-535-5053, 24 Hours

**SDS No.** 0904

# **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-bromo-3-methyl-6- (1-methylethyl)-, S,S-dioxide, monosodium salt	34722-90-2	0.01 - 1.0	BTB, Bromothymol Blue Sodium Salt		
Water	7732-18-5	Balance	Dihydrogen Oxide		

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

#### **First-aid Measures**

#### Inhalation

Move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

### **Skin Contact**

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation or a rash 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. Contact physician immediately.

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#### Ingestion

Dilute with water or milk. Immediately call a Poison Centre or doctor.

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

Some of the first-aid procedures recommended here require advanced first-aid training. If exposed or concerned, get medical advice or attention.

## Most Important Symptoms and Effects, Acute and Delayed

None known.

#### **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. Use water to keep non-leaking, fire-exposed containers cool.

### **Unsuitable Extinguishing Media**

None known.

#### Specific Hazards Arising from the Product

Does not burn. Heating increases the release of toxic vapour.

Very toxic carbon monoxide, carbon dioxide; corrosive sulfur oxides.

### **Special Protective Equipment and Precautions for Fire-fighters**

Approach fire from upwind to avoid hazardous vapours or gases. Fight fire from a safe distance or a protected location. Knock down vapours or gases with water fog or fine water spray. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

# Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials.

## **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway.

#### 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. Flush spill area.

#### **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Wear personal protective equipment to avoid direct contact with this chemical. Only use where there is adequate ventilation. Prevent accidental contact with incompatible chemicals. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

# **Conditions for Safe Storage**

Store in an area that is: cool, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Protect from light.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### **Control Parameters**

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Phenol, 4,4'-(3H-2, 1-benzoxathiol-3-ylidene)bis[2-bromo -3-methyl-6-(1-methylethyl)-, S, S-dioxide, monosodium salt	Not established		Not established			
Water	Not established		Not established			

Consult local authorities for provincial exposure limits. Consult local authorities for state exposure limits.

#### **Appropriate Engineering Controls**

The hazard potential of this product is relatively low. General ventilation is usually adequate. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

#### **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.

# **Respiratory Protection**

Not normally required if product is used as directed. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

# **Basic Physical and Chemical Properties**

AppearanceClear blue liquid.OdourOdourlessOdour ThresholdNot available

Melting Point/Freezing Point ~ 0 °C (32 °F) (melting); ~ 0 °C (32 °F) (freezing)

Not available

Not applicable

Initial Boiling Point/Range~ 100 °C (212 °F)Flash PointNot availableEvaporation RateNot available

Upper/Lower Flammability or

Flammability (solid, gas)

**Explosive Limit** 

Ηq

Not available (upper); Not available (lower)

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

Relative Density (water = 1) ~ 1

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

Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot availableDecomposition TemperatureNot available

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

Other Information

Physical State Liquid

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# **SECTION 10. STABILITY AND REACTIVITY**

#### Reactivity

Not reactive under normal conditions of use.

# **Chemical Stability**

Normally stable.

### **Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Extremely high temperatures light.

### **Incompatible Materials**

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

### **Hazardous Decomposition Products**

Very toxic carbon monoxide, carbon dioxide; corrosive sulfur oxides.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# **Likely Routes of Exposure**

Inhalation; skin contact; eye contact.

### **Acute Toxicity**

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

# Skin Corrosion/Irritation

May cause skin irritation.

# Serious Eye Damage/Irritation

May cause eye irritation.

# STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May be harmful.

# Ingestion

May be harmful.

# **Aspiration Hazard**

No information was located.

# 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-bromo-3-methyl-6-(1- methylethyl)-, S,S-dioxide,	Not Listed	Not designated	Not Listed	Not Listed

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monosodium salt				
Water	Not Listed	Not Listed	Not Listed	Not Listed

# **Reproductive Toxicity**

#### **Development of Offspring**

No information was located.

# **Sexual Function and Fertility**

No information was located.

#### **Effects on or via Lactation**

No information was located.

## **Germ Cell Mutagenicity**

No information was located.

#### **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.

**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 13, 2017

Date of Last Revision February 13, 2017

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Ward's

Science database.

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

been prepared from the best information currently available. It is not intended to be all-inclusive and the conditions of use may involve other additional considerations. Since Alphachem Limited cannot anticipate or control the conditions under which the product may be

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