

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name                    Bromocresol Purple, Bromothymol Blue, ETOH  
CAS number                    See Section 3  
Synonyms                        No information available.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses                Laboratory Chemicals

#### 1.3 Details of the supplier of the safety data sheet

Company                        Lab Alley, LLC  
                                  12501 Pauls Valley Road  
                                  Austin, Texas 78737  
                                  U.S.A.  
  
Telephone                      512-668-9918  
Fax                              512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #            US & Canada: 1-800-535-5053                    INFOTRAC  
                                  International 1-352-323-3500                    INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Toxicity - Oral Category 3  
Eye Damage / Irritation Category 2  
Reproductive Toxicity Category 1  
Specific Target Organs/Systemic Toxicity Following Single Exposure Category 2  
Flammable Liquids Category 2

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Highly flammable liquid and vapor.  
Toxic if swallowed.  
Causes serious eye irritation.  
May damage fertility or the unborn child.  
May cause damage to organs.

Precautionary statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection.

**Response:** IF SWALLOWED: Immediately call a POISON CENTER or physician.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF exposed or concerned: Call a POISON CENTER or physician. Get medical attention. Specific treatment (Wash areas of contact with water.). Rinse mouth.

Fire: In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents in accordance with local, state, federal and international regulations.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Methyl Alcohol	No information available	67-56-1	98.50

Bromocresol Purple	No information available	115-40-2	1.25
Bromothymol Blue	No information available	76-59-5	0.25

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

<b>If inhaled</b>	Not expected to require first aid. If necessary, remove to fresh air.
<b>In case of skin contact</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Results in drying and cracking which can lead to secondary infections and dermatitis. Dermal absorption causes many of the symptoms of inhalation.
<b>In case of eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.
<b>If swallowed</b>	IF SWALLOWED: Immediately call a POISON CENTER or physician. Dilute immediately with water or milk. Induce vomiting. Call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Toxic if swallowed. Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs. Flammable liquid. Primarily toxic by ingestion. Cannot be made non-poisonous. If ingested, give large quantity of water and induce vomiting. Call a physician. Contact may cause dryness and cracking of the skin. May cause irritation to the eyes. Wash areas of contact with water. May cause irritation of the respiratory system. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: Results in drying and cracking which can lead to secondary infections and dermatitis. Dermal absorption causes many of the symptoms of inhalation.

### 4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (Wash areas of contact with water.). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Use water spray, dry chemical, alcohol foam, or carbon dioxide for extinguishing the surrounding fire. Water spray can be used to dilute spills to non-flammable mixtures.
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**Unsuitable extinguishing media** No information available.

## 5.2 Specific hazards arising from the substance or mixture

Highly flammable liquid and vapor. Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks and open flames. Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Sensitive to static discharge.

## 5.3 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.

## 5.4 Further information

**Flash Point** 11°C

**Autoignition Temperature** No information available.

### Explosion limits

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### NFPA

Health	Flammability	Instability	Physical hazards
1	3	0	Not Applicable.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection.

### 6.2 Environmental precautions

Not listed.

### 6.3 Methods and materials for containment and cleaning up

Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal in an approved waste disposal facility. Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment. Dispose of in accordance with local regulations.

### 6.4 Reference to other sections

Not listed.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

#### Hygiene measures

No information available.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store locked up. Store in secure, flammable storage area away from all sources of ignition. Empty containers may be hazardous since they retain product residues. Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed.

#### Incompatibilities

Strong oxidizing agents such as Nitrates, Perchlorates or Sulfuric Acid, heat, sparks, open flame. Will attack some forms of plastics, rubber and coatings. May react with metallic aluminum and generate hydrogen gas.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Methyl Alcohol (67-56-1)	TWA	"200 ppm TWA; 260 mg/m <sup>3</sup> TWA" As Methyl alcohol [67-56-1]

#### US. ACGIH Threshold Limit Values

Component	Type	Value
Methyl Alcohol (67-56-1)	TLV-STEL	"250 ppm STEL" As Methanol [67-56-1]
Methyl Alcohol (67-56-1)	TLV-TWA	"200 ppm TWA" As Methanol [67-56-1]

#### US. NIOSH: Pocket Guide to Chemical Hazards

Not listed.

#### Biological occupational exposure limits

Not listed.

### 8.2 Exposure controls

## **Appropriate engineering controls**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

## **Personal protective equipment**

### **Eye/face protection**

Wear protective gloves and eye protection. Safety glasses or goggles.

### **Skin protection**

Wear protective gloves and eye protection. Chemical resistant gloves.

### **Body Protection**

Wear protective gloves and eye protection. Chemical resistant gloves.

### **Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved atmosphere supplied respirator must be worn.

### **Control of environmental exposure**

No information available.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Physical State	Reddish-orange liquid
Appearance	Liquid
Odor	Slight, alcohol-like
Odor Threshold	Data not available.
pH	Data not available.
Melting Point/Range	-98°C
Boiling Point/Range	Approximately 64.5°C - Approximately 64.5°C
Evaporation Rate	2.1 (butyl acetate = 1)
Flammability (solid)	Data not available.
Flammability or explosive limit	Data not available.
Upper	Data not available.
Lower	Data not available.
Vapor Pressure	128 hPa at 20°C
Vapor Density	1.1
Density	0.8
Solubility	Miscible at 20°C
Partition coefficient; n-octanol/water	-0.77
Autoignition Temp	Data not available.

Decomposition Temp	Data not available.
Viscosity	Data not available.
Molecular Formula	Data not available.
Molecular Weight	Data not available.
VOC Content(%)	Data not available.
Oxidizing properties	Data not available.

## 9.2 Other safety information

None listed.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of use and storage.

### 10.2 Chemical stability

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Data not available.

### 10.4 Conditions to avoid

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed.

### 10.5 Incompatible materials

Strong oxidizing agents such as Nitrates, Perchlorates or Sulfuric Acid, heat, sparks, open flame. Will attack some forms of plastics, rubber and coatings. May react with metallic aluminum and generate hydrogen gas.

### 10.6 Hazardous decomposition products

Will not occur.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol	5628 mg/kg (Rat)	Not listed.	Not listed.

##### Skin corrosion/irritation

Not applicable.

**Serious eye damage/eye irritation**

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Respiratory or skin sensitization**

Not applicable.

**Germ cell mutagenicity**

Not applicable.

**Carcinogenicity**

Not applicable.

**Specific target organ toxicity - single exposure**

May cause damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed or concerned: Call a POISON CENTER or physician. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Specific target organ toxicity - repeated exposure**

Not applicable.

**Reproductive toxicity**

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Chronic effects**

Not applicable.

**11.2 Additional Information**

Toxic if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or physician.

Specific treatment (Wash areas of contact with water.). Rinse mouth. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**SECTION 12: Ecological information****12.1 Toxicity**

Not applicable.

**12.2 Persistence and degradability**

Data not available.

## 12.3 Bio accumulative potential

Data not available.

## 12.4 Mobility in soil

Data not available.

## 12.5 Results of PBT and vPvB assessment

Data not available.

## 12.6 Endocrine disrupting properties

Data not available.

## 12.7 Other adverse effects

Data not available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Data not available.

## SECTION 14: Transport information

### DOT (US)

UN Number UN1230  
Proper Shipping name METHANOL  
Hazard Class 3  
Packaging Group II

### IMDG

UN Number UN1230  
Proper Shipping name METHANOL  
Hazard Class 3  
Packaging Group II

### IATA

UN Number UN1230  
Proper Shipping name METHANOL  
Hazard Class 3  
Packaging Group II

## SECTION 15: Regulatory information

### US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Bromocresol Purple (CAS # 115-40-2): "Present (ACTIVE)" As Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-6-methyl-  
[115-40-2]

Methyl Alcohol (CAS # 67-56-1): "Present (ACTIVE)" As Methanol [67-56-1]

Bromothymol Blue (CAS # 76-59-5): "Present (ACTIVE)" As Phenol, 4,4'-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-3-methyl-6-(1-methylethyl)- [76-59-5]

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### **SARA 304 Emergency release notification**

Not listed.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **SARA 302 Extremely hazardous substance**

Not listed.

##### **SARA 311/312 Hazardous**

Methyl Alcohol (CAS # 67-56-1): 5000 lb final RQ

Methyl Alcohol (CAS # 67-56-1): 2270 kg final RQ" As Methanol [67-56-1]

##### **SARA 313 (TRI reporting)**

Methyl Alcohol (CAS # 67-56-1): "1.0 % de minimis concentration" As Methanol [67-56-1]

#### **Other federal regulations**

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not listed.

##### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed.

##### **Safe Drinking Water Act**

Not listed.

##### **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

#### **US state regulations**

##### **US. Massachusetts RTK - Substance List**

Methyl Alcohol (CAS # 67-56-1): "Present" As Methanol [67-56-1]

##### **US. New Jersey Worker and Community Right-to-Know Act**

Methyl Alcohol (CAS # 67-56-1): "flammable - third degree  
Methyl Alcohol (CAS # 67-56-1): "SN 1222 500 lb TPQ" As Methanol [67-56-1]  
Methyl Alcohol (CAS # 67-56-1): teratogen" As Methyl alcohol [67-56-1]

#### **US. Pennsylvania Worker and Community Right-to-Know Law**

Methyl Alcohol (CAS # 67-56-1): "Environmental hazard" As Methanol [67-56-1]  
Methyl Alcohol (CAS # 67-56-1): "Present" As Denatured alcohols [RR-00113-8]

#### **California Proposition 65**

Methyl Alcohol (CAS # 67-56-1): "developmental toxicity, 3/16/2012" As Methanol [67-56-1]

### **SECTION 16: Other information**

Date of Issue: 12/1/2025

### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.