

# SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name Methylene Blue 1% in Ethanol Solution

Synonyms None

## 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)

Eye damage/irritation - Category 2A Germ Cell Mutagenicity - Category 1 Reproductive toxicity - Category 1

Specific target organs/system toxicity following single exposure - Category 1
Specific target organs/system toxicity following repeated exposure - Category 1

Flammable liquids - Category 2

# 2.2 GHS Label elements, including precautionary statements

Laballey.com Page 1 of 10

Pictogram



Signal Word Danger

#### Hazard statements

Flammable liquid and vapor.

Causes serious eye irritation.

May cause genetic defects.

May damage fertility or the unborn child.

Causes damage to organs.

Causes damage to organs through prolonged or repeated exposure.

## Precautionary statements

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 ightly closed.

Ground container and receiving equipment.

Use explosion-proof equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not eat, drink or smoke when using this product.

Wear protective gloves and eye protection.

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

IF exposed: Call a POISON CENTER or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

Get medical attention if you feel unwell.

Specific treatment (Wash areas of contact with water immediately)

If eye irritation persists: Get medical attention

Store locked up

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

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

No information available

# **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Ethyl Alcohol	CH3CH2OH	64-17-5	94%
Water	H2O	7732-18-5	5%
Methylene Blue	C16H18CIN3S 3H2O	7220-79-3	1%

Laballey.com Page 2 of 10

#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

#### General advice

If inhaled Not expected to require first aid. If necessary, remove to fresh air.

In case of skin contact 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.

In case of eye contact 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.

If swallowed Dilute immediately with water or milk. Induce vomiting. Call a physician.

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

Flammable liquid. Primarily toxic by ingestion. 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.

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

Specific treatment (Wash areas of contact with water immediately)

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Use dry chemical, alcohol foam, or carbon dioxide for

extinguishing the surrounding fire. Use water as fog in flooding quantities. Water can be used to dilute

spills to non-flammable mixtures.

Unsuitable extinguishing media No information available

## 5.2 Specific hazards arising from the substance or mixture

Flammable liquid and vapor. Vapors can flow along surfaces to distant ignition source and flashback. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire. Explosion hazard when exposed to heat, flame or oxidizers.

## 5.3 Special protective equipment and precautions for firefighters

Laballey.com Page 3 of 10

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

No information available.

#### **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

Do not release into environment.

#### 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

See section 2 for full list of hazard and precaution statements.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Precautions on safe handling

Avoid contact with eyes and skin. Protect from freezing and physical damage.

#### **Hygiene measures**

As with all chemicals, wash hands thoroughly after handling.

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

#### Storage conditions

Store in secure, flammable storage area away from all sources of ignition. Empty containers may be hazardous since they retain product residues.

#### **Incompatibilities**

No information available

#### **SECTION 8: Exposure controls/personal protection**

## 8.1 Occupational exposure limits

Laballey.com Page 4 of 10

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

Component	Type	Value	
Ethyl Alcohol	TWA	1000 ppm 1900 mg/m3	

#### **US. ACGIH Threshold Limit Values**

Component	Type	Value
Ethyl Alcohol	TLV-STEL	1000 ppm STEL

## 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**

No information available

#### **Respiratory protection**

Normal room ventilation is adequate. If the exposure limit is exceeded, a full facepiece respirator with organic vapor.

#### Control of environmental exposure

No information available

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

## 9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Blue liquid

Odor No information available
Odor Threshold No information available
pH No information available
Melting Point/Range Approximately 0°C

Boiling Point/Range Approximately 77°C - Approximately 77°C

Evaporation Rate No information available

Laballey.com Page 5 of 10

Flammability (solid)

No information available

Flammability or explosive limit

No information available

Upper

Lower

Vapor Pressure No information available Vapor Density No information available

Density 0.8 Solubility Miscible

Partition coefficient; n-octanol/water No information available **Autoignition Temp** No information available **Decomposition Temp** No information available No information available Viscosity No information available Molecular Formula Molecular Weight No information available No information available VOC Content(%) No information available Oxidizing properties

## 9.2 Other safety information

No information available

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Stable under normal conditions of use and storage.

# 10.2 Chemical stability

No information available

#### 10.3 Possibility of hazardous reactions

No information available

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

Oxidizers, platinum, sodium, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, heat, sparks, open flame.

## 10.6 Hazardous decomposition products

Will not occur.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Product Information, Component Information** 

Acute toxicity

Laballey.com Page 6 of 10

LD50, Oral

Ethanol: 7060 mg/kg

Methylene Blue: 1180 mg/kg

#### Skin corrosion/irritation

Not applicable

#### Serious eye damage/eye irritation

No information available

## Respiratory or skin sensitization

No information available

#### Germ cell mutagenicity

May cause genetic defects. 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.

#### Carcinogenicity

Not applicable

#### Specific target organ toxicity - single exposure

Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

### 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**

No information available

#### 11.2 Additional Information

No information available

Laballey.com Page 7 of 10

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Not applicable

#### 12.2 Persistence and degradability

No information available

## 12.3 Bio accumulative potential

No information available

## 12.4 Mobility in soil

No information available

# 12.5 Results of PBT and vPvB assessment

No information available

## 12.6 Endocrine disrupting properties

No information available

#### 12.7 Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14: Transport information**

DOT (US)

UN Number: UN1170

Proper shipping name: Ethanol Solution

Hazard Class: 3 Packing Group: II

Hazard placard labels:



**IMDG** 

**UN Number: UN1170** 

**Proper shipping name: Ethanol Solution** 

Hazard Class: 3
Packing Group: II

Laballey.com Page 8 of 10

Hazard placard labels:



IATA

**UN Number: UN1170** 

**Proper shipping name: Ethanol Solution** 

Hazard Class: 3 Packing Group: II

Hazard placard labels:



## **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Listed

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

Listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed; 5000 lb final RQ

SARA 313 (TRI reporting)

Listed

Other federal regulations

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

Not regulated

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

Not regulated.

**Safe Drinking Water Act** 

Not regulated

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

Laballey.com Page 9 of 10

#### Not listed

## **US** state regulations

**US. Massachusetts RTK - Substance List** 

Listed

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

US. Pennsylvania Worker and Community Right-to-Know Law Listed

**California Proposition 65** 

Listed

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

Revision date: 8/19/2025

#### **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.

Laballey.com Page 10 of 10