

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Date of Issue: 09/30/2019

Version: 1.0

#### **SECTION 1: IDENTIFICATION**

## 1.1. Product Identifier

Product Form: Mixture

Product Name: Methylene Blue Aqueous Solution

#### **1.2.** Intended Use of the Product

Use of the Substance/Mixture: Biological stain and redox indicator

#### 1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer

Quality Science Labs, LLC P.O. Box 159, 37888 Highway 24 Lake George, CO 80827 Tel: 866.700.1884

www.qualitysciencelabs.com

1.4. Emergency Telephone Number

Emergency Number

: CHEMTREC 24 Hour Emergency: Phone Number (800) 424-9300

#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1. Classification of the Substance or Mixture

Not classified

2.2. Label Elements

#### **GHS-US Labeling**

No labeling applicable according to 29 CFR 1910.1200.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

#### No data available

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

#### Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Water	AQUA / Aqua	(CAS-No.) 7732-18-5	99	Not classified
Methylene blue trihydrate	Phenothiazin-5-ium, 3,7- bis(dimethylamino)-, chloride, trihydrate / C.I. Basic Blue 9, trihydrate / Methylene Blue trihydrate / 3,7- Bis(dimethylamino)phenothiazin- 5-ium chloride trihydrate / 3,7- Bis(N,N- dimethylamino)phenothiazin-5- ium chloride trihydrate / Methylene Blue / Phenothiazin-5- ium, 3,7-bis(dimethylamino)-, chloride, hydrate (1:1:3)	(CAS-No.) 7220-79-3	<= 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of H-phrases: see section 16

#### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

#### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

### Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Sulfur oxides. Hydrogen chloride gas.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Transfer spilled material to a suitable container for disposal. Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

#### 7.3. Specific End Use(s)

Biological stain and redox indicator

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

#### 8.2. Exposure Controls

**Appropriate Engineering Controls** 

- : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
- Personal Protective Equipment
- : Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing	: Chemically resistant materials and fabrics.
Hand Protection	: Wear protective gloves.
Eye and Face Protection	: Chemical safety goggles.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient
	atmosphere, or where exposure levels are not known wear approved respiratory

: When using, do not eat, drink or smoke.

protection.

#### **Other Information**

SECTION 9: PHYSICAL AND CHEMICAL PR	OPERTIES
9.1. Information on Basic Physical and Ch	hemical Properties
Physical State	: Liquid
Appearance	: Deep blue liquid
Odor	: Odorless
Odor Threshold	: No data available
рН	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
Absorbance Maximum	: 660 nm
9.2. Other Information No additional infor	mation available

#### SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

- **10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.
- **10.5.** Incompatible Materials: Strong acids, strong bases, strong oxidizers.
- **10.6.** Hazardous Decomposition Products: None expected under normal conditions of use.

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SECTION 11: TOXICOLOGICAL INFORMATION	ON				
11.1. Information on Toxicological Effects					
Acute Toxicity (Oral): Not classified					
Acute Toxicity (Dran): Not classified					
Acute Toxicity (Inhalation): Not classified					
Methylene blue trihydrate (7220-79-3)					
ATE (Oral)	500.00 mg/kg body weight				
Skin Corrosion/Irritation: Not classified					
	Serious Eye Damage/Irritation: Not classified				
Respiratory or Skin Sensitization: Not classified					
Germ Cell Mutagenicity: Not classified					
Carcinogenicity: Not classified					
Methylene blue trihydrate (7220-79-3)					
IARC group	3				
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.				
Reproductive Toxicity: Not classified					
Specific Target Organ Toxicity (Single Exposure): 1	Not classified				
Specific Target Organ Toxicity (Repeated Exposur	e): Not classified				
Aspiration Hazard: Not classified	-,				
Symptoms/Injuries After Inhalation: Prolonged ex	vnosure may cause irritation				
Symptoms/Injuries After Skin Contact: Prolonged					
Symptoms/Injuries After Eye Contact: May cause					
Symptoms/Injuries After Ingestion: Ingestion may					
Chronic Symptoms: None known.					
SECTION 12: ECOLOGICAL INFORMATION					
SECTION 12. LEOLOGICAL INFORMATION					
12.1 Toxicity					
12.1. Toxicity	classified				
Ecology - General : Not	classified.				
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**15.2. US State Regulations** Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION		
Date of Preparation or Latest Revision	: 09/30/2019	
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200	

#### **GHS Full Text Phrases:**

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)