## Methylene Blue, 0.1%

# **CAROLINA®** www.carolina.com

## **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Methylene Blue, 0.1% Science education applications Basic Blue 9, Methylene Blue Chloride, C.I. #52015 Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

## Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Section 2

**Other Safety Precautions:** 

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

Section 3	Composition / Information on Ingredients				
Chemical Name	CAS #	<u>%</u>			
Water	7732-18-5	99.9			
Methylene Blue Chloride	61-73-4	0.1			

#### Section 4

## **First Aid Measures**

#### **Emergency and First Aid Procedures**

Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	After contact with skin, wash immediately with plenty of water.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

# Section 5Firefighting ProceduresExtinguishing Media:<br/>Fire Fighting Methods and Protection:Use media suitable to extinguish surrounding fire.<br/>Firefighters should wear full protective equipment ar<br/>breathing apparatus.

Fire and/or Explosion Hazards: Hazardous Combustion Products: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Fire or excessive heat may produce hazardous decomposition products. Carbon dioxide, Carbon monoxide

## **Section 6**

## **Spill or Leak Procedures**

Steps to Take in Case Material Is<br/>Released or Spilled:Exposure to the spilled material may be irritating or harmful. Follow personal protective<br/>equipment recommendations found in Section 8 of this SDS. Additional precautions may be<br/>necessary based on special circumstances created by the spill including; the material spilled,<br/>the quantity of the spill, the area in which the spill occurred. Also consider the expertise of<br/>employees in the area responding to the spill.<br/>Prevent the spread of any spill to minimize harm to human health and the environment if safe<br/>to do so. Wear complete and proper personal protective equipment following the<br/>recommendation of Section 8 at a minimum. Dike with suitable absorbent material like<br/>granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

## Handling and Storage

Storage: Keep container tightly closed in a cool, well-ventilated place. Green - general chemical storage Storage Code:

Section 8	<b>Protection</b>	nformation			
	ACGIH		<u>OSH</u>	A PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Methylene Blue Chloride	N/A	N/A	N/A	N/A	
Control Parameters					
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.				
Personal Protective Equipment (PPE): Respiratory Protection:	Lab coat, apron, eye wash, safety shower.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:	No information available				
Section 9	Physica	al Data			

Formula: C16H18CIN3S (aq) Molecular Weight: No data available Appearance: Blue Green Liquid Odor: None Odor Threshold: No data available pH: No data available Melting Point: 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available

Ingestion, Skin contact.

## Physical Data

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: 1 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

## Section 10

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: **Incompatible Materials:** Hazardous Polymerization: Not generally reactive under normal conditions. Stable under normal conditions. Exposure to light. Water-reactive materials Will not occur

## Section 11

Routes of Entry

## Toxicity Data

Symptoms (Acute): Delayed Effects:	Methemoglobinemia, No data available	Anemia			
Acute Toxicity: Chemical Name Water Methylene Blue Chlor	ide	<b>CAS Number</b> 7732-18-5 61-73-4	Oral LD50	Dermal LD50	Inhalation LC50
Carcinogenicity: Chemical Name Methylene Blue Chlor	ide	CAS Number 61-73-4	IARC Not listed	NTP Not listed	OSHA Not listed

Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:

No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. No data available

No data available

## Section 12

**Ecological Data** 

Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. This material is expected to have moderate mobility in soil. It absorbs to most soil types. Adsorbs to soil., Photodegradation No data Biodegrades at a moderate rate. No data					
<b>Chemical Name</b> Water		<b>S Number</b> 32-18-5	Eco Toxicity No data available	9		
Section 13		Disp	osal Infori	mation		
Disposal Methods:		Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.				
Waste Disposal Code(s):	Not Dete				ance.	
Section 14		Tran	sport Infor	mation		
	Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:Not regulated for transport by US DOT.Not regulated for air transport by IATA.					
Section 15	Section 15 Regulatory Information					
TSCA Status:	All comp	onents in this p	product are on the	TSCA Inventory.		
Chemical Name	CAS Number	§ 313 Nam	e § 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Methylene Blue Chloride	61-73-4	No	No	No	No	No
California Prop 65: No California Proposition 65 ingredients						
Section 16					Additio Informa	

#### Revised: 08/21/2018

Replaces: 06/15/2018

#### Printed: 08-25-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH CAS CERCLA	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act	NTP OSHA PEL ppm RCRA	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit Parts per million Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act Immediately dangerous to life and health