## **Methylene Blue Chloride**



### Section 1

### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

**Chemical Information:** 

Methylene Blue Chloride Science education applications Basic Blue 9, Methylene Blue, C.I. #52015, 3,7-bis(Dimethylamino)-phenothiazin-5-ium chloride 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)

### Section 2

**Chemtrec:** 

Hazard Identification

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

# WARNING



Harmful if swallowed.

**GHS Classification:** Acute Toxicity - Oral Category 4

### Section 3

Section 4

### **Composition / Information on Ingredients**

CAS #

61-73-4

<u>%</u> 100

Chemical Name
Methylene Blue Chloride

### 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: Call a POISON CENTER or doctor/physician if you feel unwell.

#### **Section 5**

### **Firefighting Procedures**

Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide, Nitrogen containing gases

### Section 6

### Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

### **Section 7**

### Handling and Storage

Handling: Storage: Storage Code:

Section 8

Wash thoroughly after handling. Do no eat, drink or smoke when using this product.Store at controlled room temperature.Green - general chemical storage

### **Protection Information**

	ACGIH		OSH	A PEL
Chemical Name	(TWA)	(STEL)	<u>(TWA)</u>	(STEL)
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):	Lab coat, apron, eye wa	•		
Respiratory Protection:	No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.			
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.			
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:	Butyl rubber, Neoprene	, Nitrile, Polyvinyl chlo	oride	

Physical Data

### Section 9

Formula: C16H18ClN3S . 3H20 Molecular Weight: 319.85 Appearance: Dark green Solid Odor: None Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: No data available

### Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials:

Hazardous Decomposition Products: Hazardous Polymerization:

### **Reactivity Data**

Not generally reactive under normal conditions. Stable under normal conditions. Elevated temperatures Caustics (bases), Strong reducing agents, Dichromates, Alkali Iodides, Strong oxidizing agents Nitrogen containing gases, Carbon dioxide, Carbon monoxide Will not occur

Vapor Pressure: No data available

Specific Gravity: No data available

Solubility in Water: Soluble

Viscosity: No data available

Evaporation Rate (BuAc=1): No data available

Autoignition Temperature: No data available

Percent Volatile by Volume: No data available

Decomposition Temperature: 100 - 110 C

Vapor Density (Air=1): No data available

Log Pow (calculated): 0.75 (estimated)

### Section 11

**Toxicity Data** 

Routes of Entry Symptoms (Acute): Delayed Effects: Inhalation, Ingestion, and Skin contact. Blood disorders, Methemoglobinemia, Allergies Blood disorders Methemoglobinemia

Acute Toxicity: Chemical Name Methylene Blue Chloride		CAS Number 61-73-4	<b>Oral LD5</b> Oral LD50 Ma 3500 mg/kg Oral LD50 Ra 1180 mg/kg	ouse Not de	mal LD50 termined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name Methylene Blue Chloride		<b>CAS Number</b> 61-73-4	IARC Not listed	Not list	NTP red	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. Evidence of negative effects on the unborn fetus. Blood Blood					
Section 12		Ec	ological D	Data		
Overview:		ogical hazard. In high c	concentrations, t	his product may	/ be dangerc	ous to plants and/or
Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	wildlife. This material is expected to have only slight mobility in soil. It absorbs strongly to most soil types. Adsorbs to soil. No data No data No data					
<b>Chemical Name</b> N/A		CAS Number E 61-73-4	co Toxicity			
Section 13		Dispo	osal Inforr	nation		
Disposal Methods: Waste Disposal Code(s)	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.					
Section 14		Trans	port Infor	mation		
Ground - DOT Proper S Not regulated for transport			Air - IATA Pro	oper Shipping for air transport		
Section 15		Regula	atory Info	rmation		
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Numbe	§ 313 Name r	§ 304 RQ	CERCLA RQ	§ 302 T	PQ CAA 112(2) TQ
Methylene Blue Chloride	61-73-4	No	No	No	No	No
Section 16		Additie	onal Infor	mation		

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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	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	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	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health