

Methylene Blue Chloride 1% Aqueous Solution

Section 1 Product Description

Product Name: Methylene Blue Chloride 1% Aqueous Solution

Brand: 61-73-4

Recommended Use: Laboratory reagent / Science education applications

Synonyms: Methylene Blue Solution, Basic Blue 9 solution, C.I. #52015 solution

Distributor: POSADA RD LLC

132 Hasting Ave, Rutherford, NJ Email: info@61-73-4.com Phone: 732-800-2372

Note: This product is a dilution of Methylene Blue Chloride purchased from:

Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

(Methylene Blue Chloride, CAS 61-73-4).

Original SDS for undiluted material available from the vendor. Handling and safety information adapted from vendor SDS

Chemical Information Contact

(Original Vendor)

Emergency Contact CHEMTREC: 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) Carolina Biological Supply Company

800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

GHS Classification:

Acute Toxicity - Oral Category 5

Other Safety Precautions: May be harmful if swallowed

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 98.8

 Methylene Blue Chloride
 61-73-4
 1

 Sodium Benzoate
 532-32-1
 0.2

Section 4 First Aid Measures

Emergency and First Aid Procedures

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 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

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Methods for Clean-up

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.

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Section 7

Handling and Storage

Handling: Keep container tightly closed in a cool, well-ventilated place.

Storage: N/A

Storage Code: Green - general chemical storage

Section 8 Protection Information

ACGIH

OSHA PEL (TWA) **Chemical Name** (STEL) (TWA) (STEL) Methylene Blue Chloride N/A N/A N/A N/A Sodium Benzoate 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 wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

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: Nitrile

Section 9 Physical Data

Formula: C16H18ClN3S • 3H20 Molecular Weight: 373.92 g/mol Appearance: Colorless Powder

Odor: None

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: 100 C

Flash Point: No data available Flammable Limits in Air: N/A N/A Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A

Specific Gravity: N/A

Solubility in Water: Practically Insoluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Elevated temperatures

Incompatible Materials: Water-reactive materials, Caustics (bases), Strong reducing agents, Dichromates, Alkali

lodides, Strong oxidizing agents

Hazardous Polymerization: Will not occur

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Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50** Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 C

Oral LD50 Rat

90000 mg/kg

Oral LD50 Rat Methylene Blue Chloride 61-73-4

1180 mg/kg Oral LD50 Mouse

3500 mg/kg

Oral LD50 Rat 532-32-1 Sodium Benzoate 2100 mg/kg

Carcinogenicity:

NTP **OSHA Chemical Name CAS Number IARC** Not listed Methylene Blue Chloride 61-73-4 Not listed Not listed Sodium Benzoate 532-32-1 Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

This material is not expected to be harmful to the ecology. Overview:

Mobility: No data Adsorbs to soil. No data No data No data

Persistence: Bioaccumulation: Degradability:

Other Adverse Effects:

Chemical Name CAS Number Eco Toxicity Water 7732-18-5 No data available

Sodium Benzoate 532-32-1 Aquatic LC50 (96h) Fathead Minnow > 100 MG/L

Aquatic EC50 (48h) Daphnia < 650 MG/L

Section 13 Disposal Information

Dispose in accordance with all applicable Federal, State and Local regulations. Always **Disposal Methods:**

contact a permitted waste disposer (TSD) to assure compliance.

Not Determined Waste Disposal Code(s):

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for air transport by IATA. Not regulated for transport by DOT

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Section 15 **Regulatory Information TSCA Status:** All components in this product are on the TSCA Inventory. **Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)** Number Methylene Blue Chloride 61-73-4 No No No No No Sodium Benzoate 532-32-1 No No No No No

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

Revised:01/05/2025 Replaces: 01/05/2025 Printed: 01/05/2025

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. POSADA RD LLC 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. The original SDS for the undiluted material was obtained from Carolina Biological Supply Company.

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