


## Section 1: Identification

<b>Common Name/Trade Name</b>	METHYLENE BLUE PENTAHYDRATE	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours) Outside USA and Canada: +1 703-527-3887 NSW Poisons Information Centre: 131 126 (24 hours)
<b>Distributor Name</b>	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: <a href="mailto:bellacorp@bellacorp.com.au">bellacorp@bellacorp.com.au</a>	
<b>Product Synonym(s)</b>	Tetramethylthionine chloride; Methylthioninium chloride 3, 7-bis (Dimethylamino) phenazathionium chloride Basic Blue 9; Methylene blue pentahydrate	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

## Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Acute toxicity, Oral (Category 4)	
<b>Signal Word</b>	Warning	
<b>Hazard Statement(s)</b>	H302	Harmful if swallowed
<b>Pictogram(s)</b>		
<b>Precautionary Statement(s)</b>	P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container to an approved waste disposal plant.	
<b>Hazards Not Otherwise Classified</b>	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.	
<b>Ingredient(s) with Unknown Toxicity</b>	Not available	

## Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	Methylene Blue Pentahydrate
<b>Common Name</b>	Methylene Blue Pentahydrate
<b>CAS Number</b>	32680-41-4
<b>Impurities and/or Stabilizing Additives</b>	Not available.

## Section 4: First Aid Measures

<b>General Advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If Inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In Case of Skin Contact</b>	In case of skin contact Wash off with soap and plenty of water. Consult a physician
<b>In Case of Eye Contact</b>	In case of eye contact Flush eyes with water as a precaution.
<b>If Swallowed</b>	If swallowed. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Most Important Symptoms and Effects</b>	The most important known symptoms and effects are described in the labelling (see section 2.) and/or in section 11.

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Suitable extinguishing media. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special Hazards Arising From the Substance/Mixture</b>	Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Sulphur oxides, Hydrogen chloride gas. Development of hazardous combustion gases or vapours possible in the event of fire.
<b>Special PPE and/or Precautions for Firefighters</b>	Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.
<b>Methods and Materials Used for Containment</b>	Do not let product enter drains.
<b>Cleanup Procedures</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.
<b>Conditions for Safe Storage</b>	Store in an airtight container protected from light.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	No data available.
<b>Appropriate Engineering Controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>PPE - Eye/Face Protection</b>	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested & approved under appropriate government standards such as NIOSH (US)/ EN 166(EU) ..
<b>PPE - Skin Protection</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
<b>PPE - Body Protection</b>	Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>PPE - Respiratory Protection</b>	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Dark green or blue crystals or crystalline powder having bronze-like luster
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	Odorless
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	3-5 (1% solution)
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	190°C.
<b>Solubility</b>	No data available
<b>Initial Boiling Point and Boiling Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	Combustible
<b>Partition Coefficient</b>	No data available
<b>Auto-Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	No data available
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Sulphur oxides, Hydrogen chloride gas

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50 Oral- Rat: 1180 mg/kg. LOSO Oral- Mouse: 3500 mg/kg
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	No data available
<b>Skin Corrosion/Irritation</b>	No data available
<b>Serious Eye Damage/Irritation</b>	No data available
<b>Respiratory or Skin Sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity IARC</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA
<b>Carcinogenicity ACGIH</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA
<b>Carcinogenicity NTP</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA
<b>Carcinogenicity OSHA</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity - Single Exposure</b>	No data available
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	No data available
<b>Aspiration Hazard</b>	No data available

## Section 12: Ecological Information

<b>Toxicity</b>	No data available
<b>Persistence and Degradability</b>	No data available
<b>Bio-accumulative Potential</b>	No data available
<b>Mobility in Soil</b>	This substance /mixture contains no components considered to be persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.
<b>Other Adverse Effects</b>	No data available

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.
<b>Waste Treatment Methods Packaging</b>	Dispose of as unused product.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

<b>UN Number</b>	Not dangerous goods.
<b>UN Proper Shipping Name</b>	N/A
<b>Transport Hazard Class(es)</b>	N/A
<b>Packaging Group</b>	N/A
<b>Environmental Hazards</b>	N/A. Marine pollutant: no

## Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture. This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16: Other Information

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Scarlotte Smith
<b>Revision Date</b>	03/13/2025 14:09

### Disclaimer

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