

## METHYLENE BLUE CERTIFIED

### Safety Data Sheet

Emergency Telephone Number: CHEMTREC 1-800-424-9300 For Information call: DUDLEY  
732-886-3100

### **Centaur Animal Health**

1351 W. Old 56 Highway, Suite F  
Olathe, KS. 66061

Effective Date: January 1, 2025

### **1. PRODUCT:**

**Syn:** Basic Blue 9, Tetramethylthionine chloride

**CAS No.:** 7220-79-3

**E-C No.:** 200-515-2

**Weight:** 373.90g/mol

**Formula:** C<sub>16</sub>H<sub>18</sub>ClN<sub>3</sub>S<sub>3</sub>H<sub>2</sub>O

### **2. HAZARDS:**

**GHS Class:** Acute toxicity, Oral (Cat 4)



**Pictogram:**

**Signal Word:** WARNING

**HAZARD STATEMENT:** H302: Harmful if swallowed. H402: Harmful to aquatic life.

**PRECAUTIONARY STATEMENT:** P264: Wash skin thoroughly after handling. P270: Do not drink, eat, smoke, when using this product. P301 + P312 + P330: If swallowed: Call Poison Center or doctor/physician if you feel unwell. Rinse mouth. P501: Dispose of contents/container to an approved waste disposal plant.

**2.3: Other Hazards:** none

### **3. COMPOSITION / INFO:**

<u>Chemical</u>	<u>CAS No.</u>	<u>Percent</u>
Methylthioninium chloride	7220-79-3	90-100%

### **4. FIRST AID:**

**Eyes:** Rinse as precaution with water.

**Skin:** Rinse with soap & water.

**Ingestion:** Do not induce vomiting w/o medical advice. Rinse with water.

**Inhalation:** Move to fresh air.

**Physician:** Treat symptomatically & supportively.

## **5. FIRE FIGHTING:**

**Info:** Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH & full PPE. Irritating & highly toxic gases may be generated by thermal decomp/combustion.

**Hazard:** Carbon, Nitrogen, Sulfur oxides & hydrogen chloride gas.

**Extinguishing:** Water spray, carbon dioxide, dry chem powder or alcohol-resistant foam.

**Flash Pt:** N/A.

**Auto-ignition Temp:** N/A.

**Explosion Limits:** N/A.

**Fire:** Methylene Blue does not burn. Not considered to be a fire hazard.

## **6. ACCIDENTAL RELEASE:**

**Info:** Use proper PPE as indicated in Sec 8.

**Spills:** Ventilate area of leak or spill. Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Clean up spills immediately, observing precautions in the Protective Equipment section.

## **7. HANDLING & STORAGE:**

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid dust formation and control ignition sources.

**Storage:** Store in a tightly closed container. Store in a cool, dry ventilated area away from incompatible substances.

## **8. EXPOSURE:**

Facilities storing or utilizing this material should be equipped with and eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

<b><u>Chemical</u></b>	<b><u>ACGIH</u></b>	<b><u>NIOSH</u></b>	<b><u>OSHA-Final / Vacated PEL's</u></b>
Methylene Blue	None listed	None listed	None listed

### **PPE:**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure. 0.11mm thick nitrile.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.

## **9. PHYSICAL & CHEM:**

Dark green powder

**Solubility:** ca.50g/l at 20°C

**Melting Pt:** 180°C (356°F). pH: ca.3 at 10g/l at 20°C Partition coefficient: n-octanol/water: Log Pow: 5.85 – potential bioaccumulation Bulk density: ca.400-600kg/km<sup>3</sup>

**10. STABILITY & REACTIVITY:**

**Stability:** Stable under ordinary conditions of use & storage.

**Avoid:** Heat, flame, ignition sources, dusting and incompatibilities.

**Incompatibilities:** Strong oxidizing agents.

**Haz Decomp:** see section 5

**11. TOXICOLOGICAL INFO:**

**RTEC:** SP5740000

**LD50/LC50:** No info

**Carcinogenicity:** Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

**12. ECOLOGICAL INFO:**

LC50 fathead minnow 45mg/l-96h, EC50 Water Flea -2,260mg/l-48h

**13. DISPOSAL CONSIDERATIONS:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed

**RCRA U-Series:** None listed.

**14. TRANSPORT REGULATIONS:**

Not regulated.

**15. REGULATORY INFO:**

**SARA 311/312:** Acute Health Hazard, Chronic Health Hazard.

**SARA Section 302 Extremely Hazardous Substances:** None of the chemicals in this product have a TPQ/RQ.

**Section 313:** No chemicals are reportable under Section 313

**STATE CAS#7220-79-3** is not present on state lists from CA, MN, MA, FL.

**PA & NJ Right to Know:** Methylthionium chloride CAS#7220-79-3

California Prop.65: None of the chemicals are known to cause cancer, birth defects, or any other reproductive harm.

**EUROPEAN/INTERNATIONAL REGULATIONS European Labeling in Accordance with EC Directives**

**Hazardous Symbols:** XN

**WGK (Water Danger/Protection)** CAS#7220-79-3: Not available.

**Canada-DSL/NDSL** CAS#7220-79-3 is not listed on Canada's DSL List

CAS#7220-79-3 is not listed on Canada's NDSL List.

**Canada – WHMIS:** Not available.



CAS#7220-79-3 is not listed on Canada's Ingredient Disclosure List.

**16. DISCLAIMER INFO:**

**Centaur Animal Health** provides the information herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. **Centaur Animal Health** makes no representations or warranties, either expressed or implied, including without limitation and warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, **Centaur Animal Health** will not be responsible for damages resulting from the use of or reliance upon this information.