

# SAFETY DATA SHEET

## METHYLENE BLUE, Chloride Trihydrate

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 1-905-466-3832  
Chemical Name: Methylene blue, chloride trihydrate  
Catalog Number: MET201

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**  
Acute toxicity, Oral (Category 4)

Pictogram:



Signal Word: WARNING

Hazard Statements:

H302 Harmful if swallowed.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P391 Collect spillage.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Target Organs:** Non known

**Eyes:** May cause irritation..

**Skin:** May cause irritation.

**Inhalation.** May cause irritation to respiratory tract.

**Ingestion:** harmful if swallowed

**CHRONIC HEALTH HAZARDS:** none known.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
<b>Methylene blue Chloride dihydrate</b>	<b>7220-79-3</b>	<b>100</b>

**Molecular Formula:** MnSO4.H2O  
**Molecular Weight:** 169.02

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water . Get medical aid.  
**Skin:** In case of contact, flush area immediately with water.  
**Inhalation:** Remove victim to fresh air. Get medical aid.  
**Ingestion:** Wash mouth with water. Get medical aid.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammable:** No  
**Flash Point:** Not available  
**Autoignition Temperature:** Not available  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.  
**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:  
Canada: TWA 0.2mg/m3  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid  
**Appearance and Odor:** dark green , odorless  
**Melting Point:** 190°C  
**Boiling Point:** decomposes  
**Specific Gravity:** 1.23  
**Vapor Density:** N/A  
**Solubility:** Soluble in water

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pH: 3-4.5 (1% soln.)

### SECTION 16 ADDITIONAL INFORMATION

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure

**Conditions to avoid:** dust generation

**Incompatibility:** strong oxidizing agents.

**Hazardous Decomposition Products:** chlorine gas, sulfur oxides

**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**

LD50 / LC50:

Oral mouse-1500mg/kg

Oral rat-1180 mg/kg

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

### SECTION 12 ECOLOGICAL INFORMATION

. No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:**

US Dot: Not regulated

Canada: Shipping Information: Not regulated

IATA: Not regulated

IMDG: Not regulated

### SECTION 15 REGULATORY INFORMATION

US : TSCA: not listed

European/International: N/A

Canada: WHMIS: D2B

GHS: not considered hazardous

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Date Prepared: Dec 29/2021

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The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.