

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

Methylene blue	CAS #	%
Chloride dihydrate	7220-79-3	100

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
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SECTION 10	STABILITY AND REACTIVITY:
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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
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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
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SECTION 13	DISPOSAL CONSIDERATION
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Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14	TRANSPORT INFORMATION
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Shipping Information:

US Dot: Not regulated

Canada: Shipping Information: Not regulated

IATA: Not regulated

IMDG: Not regulated

SECTION 15	REGULATORY INFORMATION
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US : TSCA: not listed

European/International: N/A

Canada: WHMIS: D2B

GHS: not considered hazardous

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

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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.