

# SAFETY DATA SHEET

## CRYSTAL VIOLET

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: CANUTEC 1-613-996-6666**  
**Chemical Name:** Crystal violet  
**Catalog Number:** CRY422

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification

#### CLASSIFICATION:

Acute toxicity, Oral ,Category 4  
Serious eye damage, Category 1  
Carcinogenicity, Category 1B  
Acute aquatic toxicity, Category 1  
Chronic aquatic toxicity, Category 1

#### PICTOGRAM:



**SIGNAL WORD:** **Danger**

#### HAZARD STATEMENTS:

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H350 May cause cancer.  
H410 Very toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### Potential Health Effects

**Target Organs:** Eyes, reproductive system

**Eyes:** Toxic when in contact with eyes. Harmful. Causes serious damage

**Skin:** May be harmful when in contact with skin.

**Ingestion:** Harmful if ingested.

**Inhalation:** harmful if inhaled.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Crystal Violet	548-62-9	~100.0

**Molecular Formula:** C<sub>25</sub>H<sub>30</sub>N<sub>5</sub>Cl

**Molecular Weight:** 408.0

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water , GET MEDICAL ATTENTION

**Skin:** In case of contact, flush area immediately with water. Remove clothing. GET MEDICAL ATTENTION.

**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.

**Ingestion:** wash mouth with water. Do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

### SECTION 5 FIRE FIGHTING MEASURES

**Combustible solid. When dealing with fire wear self-contained breathing apparatus. Avoid hazardous vapors and dust.**

**Flammable:** No

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**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. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

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### 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. Minimize dust generation. Use in fume hood.  
**Storage Conditions:** Room temperature. Keep away from heat (above 50C) and ignition source.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits:**  
Exposure limits: no data available  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use NIOSH/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid  
**Appearance and Odor:** green  
**Melting Point:** N/A  
**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Solubility:** Soluble in water  
**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Conditions to avoid:** dust generation  
**Stability:** Stable at normal room temperature and pressure. May polymerize if heated to the melting point. May polymerize on exposure to light. May form explosive dust –air mixtures.  
**Incompatibility:** strong, oxidizing agents.  
**Hazardous Decomposition Products:** Thermal decomposition may produce toxic fumes of carbon monoxide and carbon dioxide.  
**Hazardous Polymerization:** may occur see above.

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**  
LD50 / LC50:  
Oral, mouse LD50 = 96mg/kg  
Oral, rabbit LD50 = 150mg/kg  
Oral, rat LD50 = 420mg/kg

**Teratogenicity:** see entry for RTECS

**Epidemiology:** confirmed carcinogen in animals  
**Reproductive Effects:** have occurred in experimental animals  
**Neurotoxicity:** have occurred in humans  
**Mutagenicity:** see RTECS  
**Carcinogenicity:** Confirmed animal carcinogen ACGIH  
NTP: suspected carcinogen  
IARC: Group 2A carcinogen

### SECTION 12 ECOLOGICAL INFORMATION

Toxic to daphnia and other invertebrates.

### 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 TDG:**  
Not regulated

### SECTION 15 REGULATORY INFORMATION

**US:** TSCA: listed  
**European/International:**  
**Canada:** WHMIS: D1B, D2A  
Listed on DSI list. Controlled product.  
Listed on the Canadian Ingredient Disclosure list.

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)  
Date Prepared: Jan 1/2025  
Phone: (800) 234-1179

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.