

# Material Safety Data Sheet

## (12785)

### Section 1: Chemical Product and Company Identification

**Product Name:** Crystal Violet

**Catalog Number:** 12785

**CAS#:** 548-62-9

**Synonyms:** n-[4-[bis[4-(dimethylamino)phenyl]methylene]-2, 5-cyclohexadien-1-ylidene]-n-methyl-, chloride, crystal violet, Basic Violet 3, C.I. 42555, Gentian Violet

**Molecular Weight:** 407.99

**Chemical Formula:** C<sub>25</sub>H<sub>30</sub>C<sub>1</sub>N<sub>3</sub>

**Contact Information:**

**Electron Microscopy Sciences**

1560 Industry Road

Hatfield, PA 19440

1-215-412-8400 (phone)

1-800-523-5874 (toll-free)

1-215-412-8450 (fax)

**Order Online:** [emsdiasum.com](http://emsdiasum.com)

**CHEMTREC (24-Hour Emergency Telephone), call:** 1-800-424-9300

### Section 2: Composition and Information on Ingredients

Chemical Name	CAS#	Percent	Hazardous
Crystal Violet	548-62-9	100.0%	No

### Section 3: Hazards Identification

**Emergency Overview**

Appearance: Dark green solid, light sensitive. Warning! Harmful if swallowed.

Target Organ: Eyes

**Potential Health Effects:**

**Eyes:** May cause eye irritation and possible damage. This product contains a cationic dye. Similar dyes have caused permanent injury to the cornea and conjunctiva in documented exposure cases with human or rabbit eyes.

**Skin:** May cause skin irritation

**Ingestion:** Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting, and diarrhea.

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

### Section 4: First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid if irritation develops or persists, flush skin with plenty of water and soap.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of water or milk. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

### Section 5: Fire and Explosion Data

**General Information:** As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition sources. As in may fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use water spray, dry chemical, or carbon dioxide.

**Flash Point:** Not available

**Auto-Ignition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** Health 1, Flammability 0, Reactivity 0

### Section 6: Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

### Section 7 : Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

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

### Section 8: Exposure Controls/Personal Protection

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

**Exposure Limits:**

Chemical Name	ACGIH	NIOSH	OSHA Final PELs
Crystal Violet	None listed	None listed	None listed

OSHA Vacated PELs: Crystal Violet: No OSHA vacated PELs are listed for this chemical.

**Personal Protective Equipment:**

**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 EN166.

**Skin:** Wear protective gloves to prevent skin exposure.

**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 NIOSH or European Standard EN 149 approved respirators when necessary.

### Section 9: Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** Dark green powder or greenish glistening pieces having a metallic luster.

**Odor:** Slight characteristic odor

**Solubility:** Soluble in water

**Boiling Point:** Not applicable

**Vapor Density (Air = 1):** No information found

**Freezing/Melting Point:** 215 C (419 F) (dec.)

**Vapor Pressure (mm Hg):** No information found

**pH:** No information found

**Decomposition Temperature:** No information found

**Evaporation Rate:** No information found

**Viscosity:** No information found

### Section 10: Stability and Reactivity Data

**Chemical Stability:** Stable under normal temperatures and pressure. Stable under ordinary conditions of use and storage.

**Conditions to Avoid:** Incompatible materials, light.

**Incompatibilities with other materials:** Strong oxidizing agents, strong acids.

**Hazardous Decomposition Products:** Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide

**Hazardous Polymerization:** Will not occur

### Section 11: Toxicological Information

**RTECS# CAS# 548-62-9:** B09000000

**LD50/LC50:**

CAS# 548-62-9

**Oral, mouse:** LD50 = 96 mg/kg

**Oral, rabbit:** LD50 = 150 mg/kg

**Oral, rat:** LD50 = 420 mg/kg

**Carcinogenicity:**

CAS# 548-62-9, Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

**Epidemiology:** Tumorigenic, see RTECS

**Teratogenicity:** No data available

**Reproductive Effects:** see RTECS

**Neurotoxicity:** No data available

**Mutagenicity:** see RTECS

**Other Studies:** No data available

### Section 12: Ecological Information

**Environmental Fate:** No information available

**Environmental Toxicity:** No data available

### Section 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

### Section 14: Transport Information

No information available

### Section 15: Other Regulatory Information

#### US Federal

##### TSCA

CAS# 548-62-9 is listed on the TSCA inventory

##### Health and Safety Reporting List

None of the chemicals are on the Health and Safety Reporting List

##### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule

##### Section 12b

None of the chemicals in this product are listed under TSCA Section 12b.

##### TSCA Significant New Use Rule

None of the chemicals in this product have a SNUR under TSCA

##### SARA

##### Section 302 (RQ) and Section 302 (TPQ)

None of the chemicals in this product have an RQ or TPQ

##### SARA Codes

CAS# 548-62-9: Immediate

##### Section 313

No chemicals are reportable under Section 313

##### Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain and Class 1 Ozone Depletors.

This material does not contain any Class 2 Ozone Depletors.

##### Clean Water Act

None of the chemicals in this product re listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

##### OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

##### State

CAS# 548-62-9 is not present on state lists from CA, MN, MA, PA, FL or NJ

California No Significant Risk Level: None of the chemicals in this product are listed.

##### European/International Regulations:

##### European Labeling in Accordance with EC Directives:

Hazard Symbols: XN

##### Risk Phrases:

R22 Harmful if swallowed

R41 Risk of serious damage to eyes

##### Safety Phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S39 Wear eye/face protection

**WGK (Water Danger/Protection)**

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**Canada DSL/NDSL**

CAS# 548-62-9 is listed on Canada's DSL list

**Canada WHMIS**

WHMIS: Not available

**Canadian Ingredient Disclosure List**

CAS# 548-62-9 is listed on the Canadian Ingredient Disclosure List

**Exposure Limits****Section 16: Other Information:****Last Updated: 5/5/09****Date Verified and Printed: 9/27/11**

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