

Safety Data Sheet

Crystal Violet, Certified

Section 1 - Chemical Product and Company Identification

SDS Name: Crystal Violet, Certified

Catalog Numbers: R-36

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H302-Acute oral, toxicity: 4

H318-Serious eye damage/eye irritation: 1

H351-Carcinogenicity: 2

H400-Hazardous to the aquatic environment, acute hazard: 1

H410-Hazardous to the aquatic environment, long-term hazard: 1

Consists of ingredients of unknown acute dermal toxicity.

Consists of ingredients of unknown acute inhalation toxicity.

Pictograms or Hazard Symbols and Hazard Statement(s)



Signal Word: Danger

Hazard Statements:

H302-Harmful if swallowed

H318-Causes serious eye damage

H351-Suspected of causing cancer

H400-Very toxic to aquatic life

H410-Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P201-Obtain special instruction before use.

P202-Do not handle until all safety precautions have been read and understood.

P264-Wash 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-If swallowed: Call a Poison Center/doctor if you feel unwell.

P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313-If exposed or concerned: Get medical advice/attention.

P310-Immediately call a Poison Center/doctor.

P330-Rinse mouth.

P391-Collect spillage.

P405-Store locked up.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
548-62-9	Crystal Violet	≤100 w/v

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Oral Exposure: If swallowed, seek immediate medical advice. Do not induce vomiting. Rinse mouth with water and drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, hydrogen chloride gas, hydrogen chloride, irritating and toxic fumes and gases.

Flash Point: Not applicable

Autoignition Temperature: >190°C (374°F)

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 1

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Avoid dust formation.

Methods for Cleaning up: Carefully sweep up and containerize for proper disposal. Avoid generating dusty conditions. Provide ventilation. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Minimize dust formation and accumulation. Light sensitive. Store in a tightly closed container in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

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 appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Crystal Violet CAS#548-62-9	Not listed	Not listed	Not listed

Section 9 - Physical and Chemical Properties

Physical State: Powder Solid

Appearance: Dark green-blue

Odor: Odorless

Vapor Pressure: Not available

Odor Threshold: Not applicable

Vapor Density: Not available

pH: 2.5-3.5 at 10 g/L at 20°C (68°F)

Relative Density: Not available

Melting point/freezing point: 173°C (343°F)

Solubility: 50 g/L at 27°C (81°F)

Boiling Point: Not available

Flash Point: Not applicable

Evaporation Rate: Not available

Flammability (solid, gas): Not available

Partition coefficient: n-octanol/water: log Pow: 1.172 at 25°C (77°F)

Autoignition Temperature: >190°C (374°F)

Decomposition Temperature: Not available

Viscosity: Not available

Specific Gravity/Density: 1.190 g/cm³ at 20°C (68°F)

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperature and pressure.

Conditions to Avoid: Incompatible materials and excess heat. Exposure to light. Avoid dust formation.

Incompatible Materials: Strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, hydrogen chloride gas, hydrogen chloride, irritating and toxic fumes and gases.

Section 11 - Toxicological Information

CAS#548-62-9 Crystal Violet: RTECS#: B09000000

LD50 Oral: 420 mg/kg (rat)

LD50 Dermal: Not available

LC50 Inhalation: Not available

Carcinogenicity: Crystal Violet CAS#548-62-9 is not listed by NTP, ACGIH, or OSHA. Crystal Violet is listed by IARC (Group 2B, Possibly Carcinogenic to Humans), and California Prop. 65 as a carcinogen.

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: Causes serious eye damage. Suspected of causing cancer. Eye contact may result in pain, watering, redness. Overexposure may cause nausea, headache, vomiting.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains. Very toxic to aquatic life. May cause long-term adverse effects to the environment.

CAS#548-62-9 Crystal Violet:

ErC50, freshwater algae: 0.2-0.8 mg/L 72h static (*pseudokirchneriella subcapitata*)(green algae)

EC50, water flea: 0.24-0.5 mg/L 48h static (*daphnia magna*)

LC50, freshwater fish: 0.13 mg/L 96h (*pimephales promelas*) (fathead minnow)

Persistence and degradability: Not readily biodegradable.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 10/15/12

Revision #1: 8/1/14 YM

Revision #2: 8-7-19

Revision #3: 7-24-23

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