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44650

MSDS No.: CC0454
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Approved by: James A. Bertsch

MATERIAL SAFETY DATA SHEET

Section 1
Product: **CRYSTAL VIOLET SOLUTION**

Synonyms: N/A

Section 2
Chemical Name: **CRYSTAL VIOLET SOLUTION**

Chemical Name	CAS #	%	TV Units
Crystal violet	548-62-9	1%	None established.
Ammonium oxalate	1113-38-8	0.1%	None established.
Water	7732-18-5	98.9%	None established.

(ACGIH 2001)

Section 3 Hazards Identification

WARNING!
MAY BE HARMFUL IF SWALLOWED.
May cause irritation. Avoid contact with skin, eyes and clothing. Store in a cool place. Wash thoroughly after handling. Target organs: None known.

0 = Minimal	Health	2
1 = Slight	Fire	0
2 = Moderate	Reactivity	0
3 = Serious	Contact	1
4 = Severe		

HIMIS +

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.
SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General Information: This chemical due to its chemical composition and/or its concentration does not present any firefighting hazard. There are no unusual fire and explosion hazards associated with this solution.

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Flash Point: Non-flammable.

Autoignition temperature: N/A

Explosion Limits: Lower: N/A Upper: N/A

Section 6 Accidental Release Measures

Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.



GENERAL STORAGE CODE: GREEN

**Section 7
Handling & Storage**
Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from light.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.
Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty or misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Liquid.
Appearance: Dark, violet-blue.
Odor: No odor.
pH: N/A
Vapor pressure (mm Hg): 14 (water)
Vapor Density (Air = 1): 0.7 (water)
Evaporation rate (Butyl acetate = 1): < 1
Viscosity: N/A

Section 10 Stability & Reactivity

Chemical stability: Stable
Conditions to avoid: Excessive temperature to cause evaporation.
Incompatibilities with other materials: Strong oxidizers.
Hazardous decomposition products: Nitrogen oxides, carbon oxides.

Section 11 Toxicological Information

Effects of overexposure: May be harmful by ingestion or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

ORL-RAT LD50: N/A
HL-RAT LC50: N/A
SKN-RBT LD50: N/A

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty containers. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contact with a licensed chemical disposal agency.

Section 14 Transport Information

UNNA number: N/A
Shipping name: Not Regulated.
Hazard class: N/A
Packing group: N/A
Exceptions: N/A

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (208-923-6), DSL-listed.

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information generated by them and must make independent determinations of reliability and appropriateness of information from all sources to assure proper use of these materials and the safety and health of employees. • Hazardous Materials Industrial Standards.

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