

MSDS***Material Safety Data Sheet***

24 HOUR EMERGENCY
TELEPHONE NUMBER
CALL CHEMTREC
1-800-424-9300

189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

Crystal Violet
MATERIAL SAFETY DATA SHEET

The following information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Product Identification

Product Name: Crystal Violet, 1%
Product Code: ES800, ES801, ES802, ES808
Product Description: A aqueous solution of crystal violet.

| | |
|------------------------|------|
| Health | 1 |
| Flammability | 1 |
| Reactivity | 0 |
| Physical Hazard | None |

Section 1 - Shipping Data

| | | | |
|----------------------------|----------------|--------------------------------|----------------|
| DOT Shipping Name:* | Not applicable | Tel. # for information: | (610) 524-5810 |
| DOT Hazard Class: | Not applicable | Emergency Tel. #: | (800) 424-9300 |
| DOT Identification: | Unregulated | Prepared by: | P.B. |

Section 2 - Hazardous Ingredients / Identity Information

| CHEMICAL COMPONENTS | CAS# | % | OSHA PEL, ACGIH TLV/STEL (PPM) |
|---------------------|----------|--------|--------------------------------|
| Crystal Violet | 548-62-9 | <1.0% | NR/NR |
| Phenol | 108-95-2 | <1.0% | 5/250 |
| Methanol | 67-56-1 | <1.0% | 200/250 |
| Ethanol | 64-17-5 | ~11.0% | 1000/NR |

Section 3 - Physical / Chemical Characteristics

| | | | |
|---|------------|--|----------|
| Boiling Point: | ~200° F | Specific Gravity (H₂O = 1): | ~1 |
| Vapor Pressure (mm Hg and Temperature): | 79 @ 20° C | Evaporation Rate (n-butyl alcohol= 1): | >1 |
| Vapor Density (AIR=1): | >1 | Solubility in Water: | Complete |
| Appearance and Odor: Purple liquid, phenolic odor. | | | |

Section 4 - Fire and Explosion Hazard Data

Flash Point : 62° F **Flammability Limits:** Not applicable
Extinguishing Media: Water spray, dry chemical, CO₂ and foam for alcohol.
Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.
Unusual Fire and Explosive Hazards: Eliminate potential sources of ignition.

Section 5 - Reactivity Data

Stability: Stable **Conditions to Avoid:** Excessive heat.
Incompatibility (Materials to Avoid): Strong oxidizers, chromic anhydride, perchloric acids, etc.
Precautions to be taken in Handling and Storage: Avoid excessive heat and sources of ignition.

Section 6 - Health Hazard Data

Routes of Entry: Inhalation, skin, and ingestion

Carcinogenicity: Not classified as a human carcinogen.

Health Hazards

Acute: Vapors may cause eyes, skin, and respiratory irritation, drowsiness, nausea, headache and vomiting.

Chronic: May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.

Signs and Symptoms of Exposure: Vision blurring, drowsiness and headache.

Medical Conditions Generally Aggravated by Exposure: The manufacturer is unaware of any.

Emergency and First Aid Procedures:

Seek medical assistance for further treatment, observation and support if necessary.

Eye Contact: Thoroughly flush eyes with water. Contact a physician if irritation persists.

Skin contact: Remove contaminated clothing. Wash affected area with soap and water.

Ingestion: Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section 7 - Precautions For Safe Handling and Use

Steps to be Taken In Case of Spill Or Release: Eliminate source of ignition in the vicinity of the spill or released vapor. Isolate the spill area with sand or other absorbent material. Place all contaminated material in closed container for disposal.

Waste Disposal Methods: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State, and Local regulations for disposal

Precautions for handling and storing: Use precautions for combustible liquids. Avoid excessive heat and sources of ignition. Use in ventilated area.

Section 8- Control Measures

Respiratory Protection (Specify Type): Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

Ventilation: Mechanical exhaust is sufficient.

Protective Gloves: Chemical Resistant.

Eye Protection: Safety glasses.

Other Protective Clothing And Equipment: Normal laboratory apparel suggested by Good Laboratory Practices.

Hygienic Work Practices: Wash thoroughly with soap and water after handling.

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