

Leuco Crystal Violet MSDS

Effective Date: August 27, 2013 24 Hour Emergency Contact: ChemTel: (800)255-3924 www.pioneerforensics.com

1. PRODUCT AND COMPANY IDENTIFICATION

Product: Leuco Crystal Violet Powder

Product Number(s): PF026 CAS#: 603-48-5

Synonyms: Leucocrystal Violet; Leucogentian Violet; C.I. Basic Violet 3; Leucomethyl Green

Manufacturer: Pioneer Forensics LLC 804 E. Eisenhauer Blvd.

Loveland, CO 80537 Ph: (970) 292-8487

Emergency Number: (800) 255-3924 (CHEM-TEL)

Customer Service: (970) 292-8487

2. HAZARDS IDENTIFICATION

Emergency Overview: HARMFUL IF EXPOSED TO THE EYES. MAY BE HARMFUL IF INHALED,

SWALLOWED, OR ABSORBED THROUGH THE SKIN.

Safety Ratings: Health: 2, Moderate Reactivity: 0, None

Not classified as environmentally hazardous; however, this does not exclude the possibility

Flammability: 1, Slight Contact: 2, Moderate

OSHA Regulatory Status: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Potential Acute Health Effects:

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact

Inhalation: May cause irritation of respiratory tract.

Ingestion: May be hazardous if swallowed.

Skin Contact: May cause skin irritation. May stain contacted area.

Eye Contact: Causes eye irritation. May cause permanent eye damage.

Target Organs and Symptoms: Eyes, skin, lungs, mucous membranes, gastrointestinal tract. Irritation, nausea, vomiting,

diarrhea, abdominal pain.

Chronic Health Effects: No information found

Effects: that large or frequent spills can have harmful or damaging effects on the environment.

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not

breathing, provide artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs,

keep head low so that vomit does not enter lungs. Never give anything by mouth to an

unconscious person. Get medical attention.

Skin Contact: Wash affected area with plenty of water for at least 15 minutes. Remove contaminated

clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with gentle but large stream

of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical

attention.

General Advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

NFPA Ratings: Health: 2 Flammability: 1 Reactivity: 0

Flammable Properties: May be combustible at high temperatures.

Flash Point: No information found

Auto-ignition Temp: No information found

Flammable Limits in Lower Explosion Limit: No information found Air (% by volume): Upper Explosion Limit: No information found

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

Hazardous Combustion

Products:

Carbon oxides, nitrogen oxides

Specific Hazards: May be flammable or explosive in the presence of heat, flames, and sparks. High powder

concentrations in air may cause an explosion hazard.

Special Protective Equipment As in any fire, wear MSHA/NIOSH approved (or equivalent) self-contained positive pressure

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For Firefighters: or pressure-demand breathing apparatus and full protective gear.

Specific Methods: Use water spray to cool unopened containers. Move containers from fire area if you can do

so without risk. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected

personnel away from the area of the leak or spill. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid generation of dust in the surrounding air. Avoid contact with eyes, skin, and clothing.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid

discharge into drains, water courses, or onto the ground.

Methods for Containment: Prevent entry into waterways, sewer, basements or confined areas. Dike the spilled

material, where this is possible.

Methods for Cleaning Up: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece), and place

in a non-combustible container for reclamation or disposal. Clean contaminated surface thoroughly. Never return spills in original containers for re-use. Clean up in accordance

with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Do not handle or open near flame, sources of heat, or sources of ignition. Wear personal

protective equipment (see section 8). Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothing. Do not ingest. When using, do not smoke. Keep away from incompatible materials. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty since they retain product residues. Observe all warnings

and precautions listed for the product.

Storage: Store in a cool, dry, ventilated area away from flame, sources of ignition, heat, and

incompatible materials. Store in a segregated and approved area if possible. Store in original container. Keep out of light. Keep containers tightly closed and upright. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and

disposal of this product.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits: No information found

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not

been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment:

Eye/Face Protection: Wear goggles or safety glasses with side shields and a face shield.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical

resistant gloves.

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Respiratory Protection: Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled

release, if exposure levels are not known, or in any other circumstances where air-purifying

respirators may not provide adequate protection.

General Hygiene Considerations:

Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: Crystalline powder

pH: No information found Specific Gravity: No information found Freezing/Melting Point: 175 °C (347 °F)
Boiling Point: No information found Flash Point: No information found Auto Ignition Temperature: No information found

Flammable Limits in Air

(% by Volume):

No information found Upper: Lower: No information found Solubility: No information found **Vapor Pressure:** No information found Vapor Density: No information found Percent Volatile: No information found Odor threshold (ppm): No information found **Evaporation Rate:** No information found

Partition Coefficient

(n-octanol/water): No information found

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, flames, dust generation, exposure to light and air, incompatibles

Incompatible Materials: Oxidizing agents

Hazardous Decomposition

Products:

Carbon oxides, nitrogen oxides

Possibility of Hazardous

Thermal decomposition or exposure to incompatible materials may yield

Reactions: hazardous decomposition products.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological Data: No information found

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Acute Effects: Harmful if exposed to the eyes. Hazardous if ingested, inhaled, or absorbed through the

skin.

Local Effects: Causes eye, skin, and respiratory tract, and gastrointestinal tract irritation. May cause

nausea, vomiting, diarrhea, abdominal pain if swallowed. May cause permanent eye

damage if exposed to eyes.

Sensitization: No information found

Chronic Effects: No information found

Carcinogenic Effects: This product is not classified as a human carcinogen by IARC, ACGIH, NTP, or OSHA.

Skin Corrosion/Irritation: Causes skin irritation.

Epidemiology: No information found

Mutagenicity: No information found

Neurological Effects: No information found

Reproductive Effects: No information found

Teratogenic Effects: No information found

Target Organs: Skin, lungs, mucous membranes, gastrointestinal tract, eyes

12. ECOLOGICAL INFORMATION

Ecotoxicological Data: No information found

Ecotoxicity: Not expected to be toxic to the environment.

Environmental Effects: No information found

Persistence and Degradability: Long term products of biodegradation may arise. These products are less toxic then the

product itself.

Partition Coefficient (n-octanol/water):

No information found

13. DISPOSAL INFORMATION

Disposal Instructions: All wastes must be handled in accordance with local, state and federal regulations.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container

is emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: No information found

14. TRANSPORT INFORMATION

DOT: Not regulated

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15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: Leuco Crystal Violet

U.S. EPCRA (SARA Title III):

Sections 311/312: <u>Hazard Categories</u> <u>List (Yes/No)</u>

Section 311 – Hazardous Chemical	Yes
Immediate Hazard	Yes
Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

Section 313: Not listed

CERCLA: No information found

International Inventories: Country(s) or Region Inventory Name On Inventory (Yes/No)*

Australia	Australian Inventory of Chemical	Yes
	Substances (AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical	Yes
	Substances in China (IECSC)	
Europe	European Inventory of Existing Commercial	Yes
	Chemical Substances (EINECS)	
Europe	European List of Notified Chemical	No
•	Substances (ELINCS)	
Japan	Inventory of Existing and New Chemical	Yes
•	Substances (ENCS)	
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and	No
• •	Chemical Substances (PICCS)	

^{*}A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Product Use: Laboratory and/or field reagent

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Reason for Revision: Not applicable

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