

Leuco Crystal Violet Powder SDS

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):	Leuco Crystal Violet Powder
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
Distributor:	Arrowhead Forensics
	11030 Strang Line Rd. Lenexa, KS 66215 - Ph: (913) 894-8388
Emergency Number:	(800) 255-3924 (CHEM-TEL)
Customer Service:	(970) 292-8487 ARROWHEAD FORENSICS

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 Flammability: 1, Slight	Reactivity: 0, None 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		
Potential Environmental Effects:	Not classified as environmentally hazardous; however, this does not exclude the possibility that large or frequent spills can have harmful or damaging effects on the environment.		

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u> Leuco Crystal Violet	<u>CAS#</u> 603-48-5	Chemical <u>Formula</u> C ₂₅ H ₃₁ N ₃	Formula <u>Weight</u> 373.54	<u>Hazardous</u> Yes	% by <u>Weight</u> 100
4. FIRST AID MEASURE	S				
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:	keep head low s	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 MEAS	SURES				
NFPA Ratings:	Health: 2	Flammability: 1	Reactivity: 0		
Flammable Properties:	May be combus	tible at high temperatures.			
Flash Point:	No information found				
Auto-ignition Temp:	No information found				
Flammable Limits in Air (% by volume):	Lower Explosion Limit:No information foundUpper Explosion Limit:No information found				
Suitable Extinguishing Media:	Water spray, dry	Water spray, dry powder, alcohol resistant foam, carbon dioxide			
Unsuitable Extinguishing Media	Do not use a sol	Do not use a solid (straight) water stream as it may scatter and spread fire.			
Hazardous Combustion Products:	Carbon oxides, I	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

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

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.

Exposure Limits:

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 HygieneAvoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. AlwaysConsiderations: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
Color:	White
Odor:	Odorless
Molecular Formula:	$C_{25}H_{31}N_3$
Molecular Weight:	373.54
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):	
Upper:	No information found
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 Reactions:	Thermal decomposition or exposure to incompatible materials may yield hazardous decomposition products.
Hazardous Polymerization:	Will not occur.
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11. TOXICOLOGICAL INFORMATION

Toxicological Data:

No information found

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.

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

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA:	This product is considere Communication Standard	d a "Hazardous Chemical" as defined by t d, 29 CFR 1910.1200.	he OSHA Hazard
TSCA Inventory:	Leuco Crystal Violet		
U.S. EPCRA (SARA Title III):			
Sections 311/312:	Hazard Categories	List (Yes/No)	_
	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 Substances (AICS)	Yes
	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 Commer Chemical Substances (EINECS)	cial Yes
	Europe	European List of Notified Chemical Substances (ELINCS)	No
	Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
	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 reagentDisclaimer:Pioneer Forensics LLC provides the information in this Safety Data Sheet in the
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Issue Date:

08/27/2013

Reason for Revision:

Not applicable