



MATERIAL SAFETY DATA SHEET

CRYSTAL VIOLET (C.I. 42555)

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

Crystal Violet (C.I. 42555)

Synonyms : C.I. 42555; Gentian Violet; Hexamethyl-p-Rosaniline Chloride;
Basic Violet 3
CAS No. : 548-62-9
Molecular Weight : 408
Chemical Formula : $[(CH_3)_2NC_6H_4]_2C:C_6H_4:N(CH_3)_2Cl$
Product Codes : F906, F907

Company Information:

LEONID CHEMICALS

62/A-2 1st Stage, Yeshwanthpur Industrial Suburb

Ashokpuram School Road

Bangalore-560 022, Karnataka, INDIA

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SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient : Hexamethyl-p-rosaniline Chloride
CAS No. : 548-62-9
% : 90 - 100 %
Hazardous : Yes

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! CAUSES SEVERE EYE IRRITATION. HARMFUL IF SWALLOWED. MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN AND RESPIRATORY TRACT.

J.T. Baker SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating : 2 - Moderate
Flammability Rating : 1 - Slight
Reactivity Rating : 1 - Slight
Contact Rating : 2 - Moderate
Lab Protective Equip : GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES
Storage Color Code : Orange (General Storage)

Potential Health Effects

Inhalation:

Inhalation of dust may irritate the mucous membranes of the upper respiratory tract.

Ingestion:

Toxic. Results in symptoms of nausea, vomiting, diarrhea, and abdominal pain. Severe

systemic poisonings have not been reported in man, but animal studies have shown blood pressure rise and death from respiratory paralysis. Estimated lethal human dose: 1 tsp - 1 oz.

Skin Contact:

May cause irritation. Can stain area of contacted skin.

Eye Contact:

Causes severe irritation. Contact may cause permanent eye damage.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

SECTION 4- FIRST AID MEASURES

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:

Monitor for possible nitrite intoxication.

SECTION 5- FIRE FIGHTING MEASURES

Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7 - HANDLING and STORAGE

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Airborne Exposure Limits:
None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Dark green powder or greenish glistening Pieces having a metallic luster.
Odor	:	Slight characteristic odor. Odorless.
Solubility	:	Soluble in water.
Specific Gravity	:	No information found.
pH	:	No information found.
% Volatiles by volume @ 21C (70F)	:	0
Boiling Point	:	No information found.
Melting Point	:	215C (419F)
Vapor Density (Air=1)	:	Not applicable.
Vapor Pressure (mm Hg)	:	Not applicable.
Evaporation Rate (BuAc=1)	:	No information found.

SECTION 10 - STABILITY AND REACTIVITY

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products

When heated to decomposition it emits toxic fumes of nitrogen oxides and hydrogen chloride.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong acids and oxidizing agents.

Conditions to Avoid:

Heat, dusting and incompatibles. Incompatibles.

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral rat LD50: 420 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.

Cancer Lists

Ingredient	:	Hexamethyl-p-rosaniline Chloride (548-62-9)
NTP Carcinogen	:	
Known	:	No
Anticipated	:	No
IARC Category	:	None

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

SECTION 13 - DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

Not regulated.

SECTION 15 - REGULATORY INFORMATION

Chemical Inventory Status - Part 1

Ingredient	:	Hexamethyl-p-rosaniline Chloride (548-62-9)
TSCA	:	Yes
EC	:	Yes

Japan : Yes
Australia : Yes

Chemical Inventory Status - Part 2

Ingredient : Hexamethyl-p-rosaniline Chloride (548-62-9)

Canada

Korea : Yes
DSL : Yes
NDSL : No
Phil : Yes

Federal, State & International Regulations - Part 1

Ingredient : Hexamethyl-p-rosaniline Chloride (548-62-9)

SARA 302

RQ : No
TPQ : No

SARA 313

List : No
Chemical Catg: No

Federal, State & International Regulations - Part 2

Ingredient : Hexamethyl-p-rosaniline Chloride (548-62-9)
CERCLA : No

RCRA

261.33 : No
TSCA
8(d) : No

Chemical Weapons Convention : No TSCA 12(b): No CDTA: No
SARA 311/312 : Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity : No (Pure / Solid)

Australian Hazchem Code : None allocated
Poison Schedule : None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION

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

Label Hazard Warning:

WARNING! CAUSES SEVERE EYE IRRITATION. HARMFUL IF SWALLOWED. MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN AND RESPIRATORY TRACT.

Label Precautions:

Avoid breathing dust.
Store in a tightly closed container.
Use with adequate ventilation.
Wash thoroughly after handling.
Do not get in eyes.
Avoid contact with skin and clothing.

Label First Aid:

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

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