



Material Safety Data Sheet Gentian Violet, 2% Methanolic

Section 1 - Chemical Product and Company Identification

MSDS Name:

Gentian Violet, 2% Methanolic

Catalog Numbers:

LC14830

Synonyms:

Crystal violet, 2% in Methanol

Company Identification:

LabChem Inc

200 William Pitt Way

Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300 or 011-703-527-3887

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
67-56-1	Methanol	98
548-62-9	Gentian violet	2

Section 3 - Hazards Identification

Emergency Overview

Appearance: *Purple solution*

Danger! Flammable liquid. Poison. Harmful or fatal if inhaled. May cause blindness if swallowed or absorbed through the skin. Central nervous system depressant. Cannot be made nonpoisonous. May cause irritation to eyes, skin, and respiratory tract. May cause reproductive and fetal effects.

Target Organs: *Eyes, skin, respiratory and gastrointestinal tracts, central nervous system, optic nerve, liver, kidneys, blood.*

Potential Health Effects

Eye:

Causes severe eye irritation. May cause permanent vision impairment or loss.

Skin:

May cause skin irritation. May be absorbed through the skin in harmful amounts.

Ingestion:

May cause liver and kidney damage. Inhalation or ingestion causes narcotic intoxication, headache, cramps, severe pain, and blindness. Kidney and liver damage may occur with possible heart or respiratory failure to coma and death. Some symptoms may be delayed for days.



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Inhalation:

May cause respiratory tract irritation. Symptoms of inhalation may be similar to those of ingestion.

Chronic:

May cause blurred or painful vision, blindness, defatting of skin, and liver and kidney damage. Experiments with laboratory animals have shown reproductive toxicity effects.

Section 4 - First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid at once.

Ingestion:

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors are heavier than air and may travel to a source of ignition and flashback. Cool containers with water spray. Vapor-air mixtures are explosive.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

725°F (385°C)

Flash Point:

52°F (11°C)

NFPA Rating:

CAS# 67-56-1: Health- 1, Flammability- 3, Instability- 0.

CAS# 548-62-9: Health- 2, Flammability- 0, Instability- 0.

Explosion Limits:

Lower: 6.7 Upper: 36

Section 6 - Accidental Release Measures



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General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Shut off ignition sources; avoid vapors. Use non-sparking tools and equipment. Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in suitable container labeled for later disposal. Label reclaimed spill material as flammable. Isolate and ventilate the spill area. Keep out of sewers and drains.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Ground and bond containers when transferring material. Avoid breathing dust, vapor, mist, or gas. Keep away from flames and other sources of high temperatures that may cause material to form vapors or mists. Use explosion-proof equipment.

Storage:

Keep away from heat, sparks, and flame. Store capped at room temperature. Do not store in direct sunlight.

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. Use adequate ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Methanol	200 ppm TWA 250 ppm STEL	200 ppm TWA 250 ppm STEL 6000 ppm IDLH	200 ppm TWA 260 mg/m ³ TWA
Gentian violet	None of the components are on this list	None of the components are on this list	None of the components are on this list

OSHA Vacated PELs:

Methanol: 200 ppm TWA; 260 mg/m³ TWA

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



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Section 9 - Physical and Chemical Properties

Physical State:	Liquid
Color:	Purple
Odor:	Alcohol-like
pH:	No information found.
Vapor Pressure:	97 mm Hg @20°C
Vapor Density:	1.11 (Air = 1.0)
Evaporation Rate:	5.2 (Ether = 1.0)
Viscosity:	0.55 cP @ 20°C
Boiling Point:	65°C (148°F)
Freezing/Melting Point:	-98°C (-144°F)
Decomposition Temperature:	Not available
Solubility in water:	Soluble.
Specific Gravity/Density:	0.8
Molecular Formula:	No information found.
Molecular Weight:	No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible substances, heat, flames, sources of ignition.

Incompatibilities with Other Materials:

Strong oxidizers, strong acids, acid anhydrides, acid chlorides, strong bases, metals, peroxides.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, formaldehyde, hydrogen chloride, nitrogen oxides.

Hazardous Polymerization:

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 67-56-1: PC1400000.

CAS# 548-62-9: BO9000000.

LD50/LC50:

CAS# 67-56-1:

Inhalation, rat: LC50 =64000 ppm/4H

Oral, mouse: LD50 = 7300 mg/kg

Oral, rat: LD50 = 5628 mg/kg

Skin, rabbit: LD50 = 15800 mg/kg.

CAS# 548-62-9:

Oral, mouse: LD50 = 96 mg/kg

Oral, rat: LD50 = 420 mg/kg.

Carcinogenicity:

CAS# 67-56-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.



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CAS# 548-62-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

No information found

Teratogenicity:

Teratogenic effects have occurred in experimental animals.

Reproductive:

Reproductive toxicity has occurred in experimental animals.

Mutagenicity:

Mutagenic effects have occurred in experimental animals.

Neurotoxicity:

No information found

Section 12 - Ecological Information

Ecotoxicity: Freshwater fish: *Oncorhynchus mykiss*, LC50 = 13200 mg/L/96 h; *Pimephales promelas*, LC50 = 28100 mg/L/96 h

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Flammable Liquid, n.o.s. (Methanol)

Hazard Class: 3

UN Number: UN1993

Packing Group: PG II

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 67-56-1 is listed on the TSCA Inventory.

CAS# 548-62-9 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)

CERCLA/SARA Section 313:

This material contains Methanol (CAS# 67-56-1, 98%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous:

None of the components are on this list.



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US State

State Right to Know:

Methyl alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations:

None listed.

European/International Regulations

Canadian DSL/NDSL:

CAS# 67-56-1 is listed on Canada's DSL List.

CAS# 548-62-9 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

CAS# 548-62-9 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 1, 1998

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