

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Crystal Violet Stain Solution

CAS number See Section 3

Synonyms No information available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC
 12501 Pauls Valley Road
 Austin, Texas 78737
 U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye Damage / Irritation Category 2
Carcinogenicity Category 2
Hazardous to the Aquatic Environment (Acute) Category 3
Hazardous to the Aquatic Environment (Chronic) Category 3

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

Causes serious eye irritation.
Suspected of causing cancer.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash arms, hands and face thoroughly after handling.
Avoid release to the environment.
Wear protective gloves and eye protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical attention.
If eye irritation persists: Get medical attention.
Store locked up.
Dispose of contents in accordance with local, state, federal and international regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Data not available.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water		7732-18-5	≥99.4%
Gentian Violet		548-62-9	0.25-0.50%
Ammonium Oxalate		6009-70-7	0.10%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled

Not expected to require first aid. If necessary, remove to fresh air.

In case of skin contact

May cause slight irritation.

In case of eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause slight irritation.
If swallowed	Dilute with water or milk. Call a physician. Physician: monitor for possible Nitrite intoxication.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Suspected of causing cancer. Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards at this low concentration. Gentian Violet contains an ingredient reasonably anticipated by NTP to be a carcinogen. Wash areas of contact with water. If ingested, monitor for possible Nitrite intoxication. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Call a physician. Physician: monitor for possible Nitrite intoxication.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use any means suitable for extinguishing surrounding fire.
Unsuitable extinguishing media	No information available

5.2 Specific hazards arising from the substance or mixture

Not considered to be a fire or explosion hazard.

5.3 Special protective equipment and precautions for firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

Explosion limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

NFPA

Health	Flammability	Instability	Physical hazards
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1	0	0	N/A
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection.

6.2 Environmental precautions

No information available

6.3 Methods and materials for containment and cleaning up

Absorb with suitable material and dispose of in accordance with local regulations.

6.4 Reference to other sections

No information available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.

Hygiene measures

No information available

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store locked up. Protect from freezing and physical damage.

Incompatibilities

See Section 10.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

No information available

US. ACGIH Threshold Limit Values

No information available

US. NIOSH: Pocket Guide to Chemical Hazards

No information available

Biological occupational exposure limits

No information available

8.2 Exposure controls

Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

Personal protective equipment

Eye/face protection

Wear protective gloves and eye protection. Safety glasses or goggles.

Skin protection

Wear protective gloves and eye protection. Chemical resistant gloves.

Body Protection

Wear protective gloves and eye protection.

Respiratory protection

Normal room ventilation is adequate.

Control of environmental exposure

No information available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Dark violet liquid
Odor	Data not available.
Odor Threshold	Data not available.
pH	Data not available.
Melting Point/Range	Data not available.
Boiling Point/Range	Data not available.
Evaporation Rate	Data not available.
Flammability (solid)	Data not available.
Flammability or explosive limit	Data not available.
Upper	Data not available.
Lower	Data not available.
Vapor Pressure	Data not available.
Vapor Density	Data not available.
Density	1.01

Solubility	Miscible
Partition coefficient; n-octanol/water	Data not available.
Autoignition Temp	Data not available.
Decomposition Temp	Data not available.
Viscosity	Data not available.
Molecular Formula	Data not available.
Molecular Weight	Data not available.
VOC Content(%)	Data not available.
Oxidizing properties	Data not available.

9.2 Other safety information Data not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal use and storage conditions.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Data not available.

10.4 Conditions to avoid

Avoid incompatible materials.

10.5 Incompatible materials

Strong Acids and Oxidizing Agents.

10.6 Hazardous decomposition products

Will not occur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Gentian Violet	Rat: 420 mg/kg		

Skin corrosion/irritation

Not applicable.

Serious eye damage/eye irritation

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Respiratory or skin sensitization

Not applicable.

Germ cell mutagenicity

Not applicable.

Carcinogenicity

Suspected of causing cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific target organ toxicity - single exposure

Not applicable.

Specific target organ toxicity - repeated exposure

Not applicable.

Reproductive toxicity

Not applicable.

Chronic effects

Data not available.

11.2 Additional Information

Gentian Violet is investigated as a mutagen and reproductive effector.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with

12.2 Persistence and degradability

Data not available.

12.3 Bio accumulative potential

Data not available.

12.4 Mobility in soil

Data not available.

12.5 Results of PBT and vPvB assessment

Data not available.

12.6 Endocrine disrupting properties

Data not available.

12.7 Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Data not available.

SECTION 14: Transport information

DOT (US)	Not regulated according to DOT Regulations.
IMDG	No information available
IATA	Not regulated according to IATA Dangerous Goods Regulations.

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Gentian Violet (CAS # 548-62-9): "Present (ACTIVE)" As Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1) [548-62-9]

Ammonium Oxalate (CAS # 6009-70-7): "Present (ACTIVE)" As Ethanedioic acid, ammonium salt (1:2) [1113-38-8]

Water (CAS # 7732-18-5): Present [XU] (ACTIVE)

CERCLA Hazardous Substance List (40 CFR 302.4)

No information available

SARA 304 Emergency release notification

No information available

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Ammonium Oxalate (CAS # 6009-70-7): "5000 lb final RQ

Ammonium Oxalate (CAS # 6009-70-7): 2270 kg final RQ (listed under Ammonium oxalate)

SARA 313 (TRI reporting)

Ammonium Oxalate (CAS # 6009-70-7): "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No information available

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

No information available

Safe Drinking Water Act

No information available

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

No information available

US state regulations

US. Massachusetts RTK - Substance List

Ammonium Oxalate (CAS # 6009-70-7): "Present" As Ammonium oxalate [14258-49-2]

US. New Jersey Worker and Community Right-to-Know Act

Ammonium Oxalate (CAS # 6009-70-7): "sn 0108" As Ammonium oxalate [1113-38-8]

US. Pennsylvania Worker and Community Right-to-Know Law

Ammonium Oxalate (CAS # 6009-70-7): "Environmental hazard" As Ethanedioic acid, ammonium salt [14258-49-2]

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

California Proposition 65

Gentian Violet (CAS # 548-62-9): "carcinogen, 11/23/2018" As Gentian Violet [548-62-9]

SECTION 16: Other information

Date of Issue: 12/30/2025

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.