OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CRYSTAL VIOLET 1% W/V IN GLACIAL ACETIC ACID (For non-aqueous titration)

MSDS CAS:

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: CRYSTAL VIOLET 1% W/V IN GLACIAL ACETIC ACID
CAS#: Not Available.
Synonym: Not Available.
Chemical Name: CRYSTAL VIOLET 1% W/V IN GLACIAL ACETIC ACID
Chemical Formula:

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Substance name	Contents	CAS No
Acetic Acid	64-19-7	99.05%
Gentian Violet	548-62-9	0.95%

Section 3: Hazards Identification

Hazard Class	Category	Hazard Statement	Precautionary Statements
Acute Toxicity - Ora	Category 4	H302	P264, P270, P301+P312, P330, P501
Acute Toxicity - Inhalation	Category 4	H332	P261, P271, P304+P340, P312
Carcinogenicity	Category 1	H350	P201, P202, P280, P308+P313, P405, P501
Reproductive Toxicity	Category 2	H361	P201, P202, P280, P308+P313, P405, P501

Section 4: First Aid Measures

Description of first aid measures

Inhalation:

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Skin contact:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause serious damage to the skin. Effects may include redness, pain, skin burns.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and irritation to eyes.

Ingestion:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Danger! Corrosive liquid. May be fatal if swallowed. Causes severe burns to all areas of contact. Harmful if inhaled. Inhalation may cause lung and tooth damage. Immediately wash areas of contact with plenty of water for at least 15 minutes. If ingested, give large quantity of water. Do not induce vomiting. Crystal Violet contains a potential carcinogen. EYE CONTACT: Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and irritation to eyes. SKIN CONTACT: May cause serious damage to the skin. Effects may include redness, pain, skin burns. CHRONIC EFFECTS / CARCINOGENICITY: Repeated exposures may cause erosion of exposed front teeth, darkening of skin and chronic inflammation of the nose, throat and bronchial tubes.

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Flammable liquid and vapor. Combustible liquid. Combustion may produce irritants and toxic gases.

Advice for fire-fighters

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures: Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, Teflon, Viton, or Saranex barrier recommended.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

Cleanup and Containment Methods and Materials:

Use water spray to cool and disperse vapors, protect personnel, and dilute spills to form nonflammable mixtures. Use soda ash to neutralize spills. Control runoff and isolate discharged material for proper disposal.

Section 7: Handling and Storage

Precautions for safe handling

Store in corrosive resistant container with a resistant inner liner. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not mix with bases. Store at 15oC (59oF) or above to prevent crystallization.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use only outdoors or in a well-ventilated area. Work in fume hood.

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Work with adequate ventilation or wear respirator with acid gas/organic vapor cartridge.
Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves.
Eye Protection: Wear protective gloves and eye protection. Safety glasses or goggles.

Personal Protective Equipment:
Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. Work with adequate ventilation or wear respirator with acid gas/organic vapor cartridge. Chemical resistant gloves. Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Physical state at 20 °C	: Liquid.
Colour	: Dark blue to violet/purple
Odour	: Strong, vinegar, lachrymator.
Odour threshold	: No data available.
Molecular Weight	: No data available.
pH value	: No data available.
Melting point [°C]	: 16.64°C.
Decomposition point [°C]	: Not Applicable.
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: No data available.
Flash point [°C]	: 39°C.
Boiling point [°C]	: Not Applicable.
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: 0.97 (butyl acetate = 1)
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: 11.4 mmHg at 20°C.
Vapour density	: 2.1
Density [g/cm3]	: 1.05
Relative density, gas (air=1)	: Not Applicable.
Relative density, liquid (water=1)	: Not Applicable.

Section 9: Physical and Chemical Properties (Continued)

Solubility in water [% weight]	**: Not Applicable.**
Solubility in water	**: No data available.**
Log Pow octanol / water at 20°C	**: No data available.**
Solubility	**: Miscible.**
Viscosity at 40°C [mm2/s]	**: No data available.**

Section 10: Stability and Reactivity Data

Reactivity

Reactivity: Stable under normal conditions of use and storage. Acetic acid contracts slightly upon freezing which may cause the container to burst.

Possibility of hazardous reactions

Hazardous reactions: Data not available.

Conditions to avoid and Incompatible materials

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Keep only in original container. Strong bases, strong oxidizers, chromic acid, sodium peroxide, nitric acid, perchloric acid.

Hazardous decomposition products

Will not occur.

Section 11: Toxicological Information

Acute Toxicity - Oral Exposure:

Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Dermal Exposure:

Harmful in contact with skin. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Specific treatment (Wash areas of contact with water). Take off contaminated clothing and wash it before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

Section 11: Toxicological Information (Continued)

Acute Toxicity - Inhalation Exposure:
Harmful if inhaled. Avoid breathing fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Section 12: Ecological Information

Ecotoxicity: **Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.**

Persistence and Degradability: **Data not available.**

Bioaccumulative Potential: **Data not available.**

Mobility in Soil: **Data not available.**

Other Adverse Ecological Effects: **Data not available.**

Section 13: Disposal Considerations

Waste treatment methods
Data not available.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: **Acetic Acid Solution**
UN N°: **UN2789**
ADR - Class: **8 (3)**
ADR - Group: **III**

Section 14: Transport Information (Continued)

Sea transport (IMDG) [English only]
Proper shipping name: Acetic Acid Solution
UN N°: UN2789
IMO-IMDG - Class or division: 8 (3)
IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]
Proper shipping name: Acetic Acid Solution
UN N°: UN2789
IATA - Class or division: 8 (3)
IATA - Packing group: II

Section 15: Other Regulatory Information

Occupational Safety and Health Administration (OSHA) Hazards: Not listed.

Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances: Not listed.

Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Acetic Acid (CAS # 64-19-7): 5000 lb final RQ; 2270 kg final RQ

Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI): Not listed.

Massachusetts Right-to-Know Substance List Acetic Acid (CAS # 64-19-7): Present

Pennsylvania Right-to-Know Hazardous Substances Acetic Acid (CAS # 64-19-7): Environmental hazard Acetic Acid (CAS # 64-19-7): Present

New Jersey Worker and Community Right-to-Know Components Acetic Acid (CAS # 64-19-7): corrosive Acetic Acid (CAS # 64-19-7): sn 0004

California Proposition 65: Not listed.

Section 15: Other Regulatory Information (Continued)

Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL) Gentian Violet (CAS # 548-62-9): Present (DSL) Acetic Acid (CAS # 64-19-7): Present (DSL) Acetic Acid (CAS # 64-19-7): Present (NDSL)

United States of America Toxic Substances Control Act (TSCA) List Gentian Violet (CAS # 548-62-9): Present Acetic Acid (CAS # 64-19-7): Present

European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP): Not listed.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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