



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 454
Effective Date February 16, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

| | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|----------|--------|----------|------|---------|---|---|---|---|---|--------|---|------|---|------------|---|
| Product | CRYSTAL VIOLET AMMONIUM OXALATE SOLUTION |  <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table> | LEAST | SLIGHT | MODERATE | HIGH | EXTREME | 0 | 1 | 2 | 3 | 4 | Health | 1 | Fire | 0 | Reactivity | 0 |
| LEAST | SLIGHT | | MODERATE | HIGH | EXTREME | | | | | | | | | | | | | |
| 0 | 1 | | 2 | 3 | 4 | | | | | | | | | | | | | |
| Health | 1 | | | | | | | | | | | | | | | | | |
| Fire | 0 | | | | | | | | | | | | | | | | | |
| Reactivity | 0 | | | | | | | | | | | | | | | | | |
| Chemical Synonyms | Crystal Violet Ammonium Oxalate Solution | | | | | | | | | | | | | | | | | |
| Formula | Mixture | | | | | | | | | | | | | | | | | |
| Unit Size | up to 4 Lt. | | | | | | | | | | | | | | | | | |
| C.A.S. No. | Mixture. See Section II. | | | | | | | | | | | | | | | | | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|---------------------------------------|-------|-------------------|
| Crystal Violet: (CAS No. 548-62-9) | 0.1% | None established. |
| Ammonium Oxalate: (CAS No. 1113-38-8) | 1.0% | None established. |
| Water: (CAS No. 7732-18-5) | 98.9% | None established. |

WARNING! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION.

SECTION III PHYSICAL DATA

| | | | |
|------------------------|------------------------------|---|-----------------|
| Melting Point (°F) | Approx. 0°C (32°F) | Specific Gravity (H ₂ O = 1) | 1.0 |
| Boiling Point (°F) | Approx. 100°C (212°F) | Percent Volatile by Volume (%) | 98.9% |
| Vapor Pressure (mm Hg) | 14 (water) | Evaporation Rate (Ether =1) | Greater than 1. |
| Vapor Density (Air=1) | 0.7 (water) | | |
| Solubility in Water | Complete. | | |
| Appearance & Odor | Dark violet liquid; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | | |
|----------------------------------|---|-------------------------------------|----|-------|-------|
| Flash Point (Method Used) | Non-Flammable | Flammable Limits in Air % by Volume | NA | Lower | Upper |
| Extinguisher Media | Use any media suitable for extinguishing supporting fire. | | | | |

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions resulting in the evaporation of the water solution hazardous decomposition products may be produced as dust or fume.

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

CC 454

Threshold Limited Value None established for this mixture.

Effects of Overexposure May be harmful by ingestion or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water or milk to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **INHALATION AS MIST:** Remove to fresh air. If illness or discomfort develops, get medical attention.

SECTION VI REACTIVITY DATA

| | | | |
|------------------|-----------------|---|---|
| Stability | Unstable | X | Conditions to Avoid Protect from light. Excessive temperature and heat to cause evaporation. |
| | Stable | | |

Incompatibility (Materials to Avoid) Strong oxidizers.

Hazardous Decomposition Products Combustion will produce carbon dioxide and probably emits toxic fumes of chlorides and oxides of nitrogen (NO_x).

| | |
|---------------------------------|----------------------------|
| Hazardous Polymerization | Conditions to Avoid |
| May Occur | Will Not Occur |
| | X |
| | Not applicable. |

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Absorb on vermiculite. Scoop up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator or contact a licensed chemical waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Good ventilation should be sufficient in laboratory use.

| | | | | |
|--------------------|-----------------------------|---------------|----------------|-----|
| Ventilation | Local Exhaust | Not required. | Special | No. |
| | Mechanical (General) | Not required. | Other | No. |

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Smock, apron, proper gloves, and eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Avoid contact with eyes, skin or clothing. Store in a cool, dry place. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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| Revision No. 3 | Date 2/16/99 | Approved Michael Raszeja | Chemical Safety Coordinator MR |
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