



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. AA 304
Effective Date September 22, 1998

SECTION V HEALTH HAZARD DATA

AA 304

Threshold Limited Value

None established for this mixture.

Effects of Overexposure

May be harmful by ingestion. 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.

Emergency and First Aid Procedures

INHALATION AS MIST: Remove to fresh air. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, do **NOT** induce vomiting. Give large quantities of water to drink. Call a physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

| Stability | Unstable | Conditions to Avoid |
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| | Stable | X Excessive temperature to cause evaporation. |

| Incompatibility (Materials to Avoid) | Strong oxidizers, bases, alkalis. Decomposes with sodium hypochlorite. |
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| Hazardous Decomposition Products | Thermal decomposition or burning may produce ammonia, carbon monoxide and/or carbon dioxide. |
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| Hazardous Polymerization | | Conditions to Avoid |
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| May Occur | Will Not Occur | Not applicable. |
| | X | |

SECTION VII SPILL OR LEAK PROCEDURES

| Steps to be taken in case material is released or spilled | Absorb with an inert dry material and place in an appropriate container for proper disposal. Wash spill area thoroughly with soap and water. |
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| 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. |
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Dispose of in accordance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

| Respiration Protection (Specify Type) | None should be needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood and/or wear a NIOSH/MSHA-approved respirator. |
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| Ventilation | Local Exhaust | If misty. | Special | No. |
|-------------|----------------------|-----------|---------|-----|
| | Mechanical (General) | If misty. | Other | No. |

| Protective Gloves | Rubber. | Eye Protection | Chemical safety glasses. |
|-------------------|---------|----------------|--------------------------|
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| Other Protective Equipment | Goggles, smock, apron, eye wash station, ventilation hood. |
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SECTION IX SPECIAL PRECAUTIONS

| Precautions to be Taken in Handling & Storing | Store in a cool place. Wash thoroughly after handling. |
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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. |
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Avoid contact with eyes or prolonged contact with skin.
Remove and wash contaminated clothing.

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

| Revision | No. 2 | Date | 9/22/98 | Approved | Michael Raszeja | Chemical Safety Coordinator | MR |
|----------|-------|------|---------|----------|-----------------|-----------------------------|----|
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

| Product | Ammonium Oxalate, 0.25 Molar Solution |
|-------------------|---------------------------------------|
| Chemical Synonyms | Ammonium Oxalate Aqueous Solution |
| Formula | Mixture |
| Unit Size | up to 4 Lt. |
| C.A.S. No. | Mixture |

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

| Health | 2 |
|------------|---|
| Fire | 0 |
| Reactivity | 1 |

HMIS *

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|---------------------------------------|---------|-------------------|
| Ammonium Oxalate: (CAS No. 1113-38-8) | 3.10 % | None established. |
| Water: (CAS No. 7732-18-5) | 96.90 % | None established. |
| WARNING! IRRITANT. | | |
| HARMFUL IF SWALLOWED. | | |

SECTION III PHYSICAL DATA

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| Melting Point (°F) | Freezes below 0°C (32°F) | Specific Gravity (H ₂ O = 1) | Approx. 1.0 |
| Boiling Point (°F) | Approx. 100°C (212°F) (Water) | Percent Volatile by Volume (%) | 96.90 % |
| Vapor Pressure (mm Hg) | 14 (Water) | Evaporation Rate (Water = 1) | < 1 |
| Vapor Density (Air=1) | 0.7 (Water) | | |
| Solubility in Water | Complete. | | |
| Appearance & Odor | Clear water white liquid; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| Flash Point (Method Used) | Non-flammable. | Flammable Limits in Air % by Volume | N/A | Lower | Upper |
|---------------------------|----------------|-------------------------------------|-----|-------|-------|
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| Extinguisher Media | Use any media suitable for extinguishing supporting fire. |
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SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

| D.O.T. | NON-REGULATED. |
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20