



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. ZZ 121  
Effective Date June 3, 1999

## SECTION V HEALTH HAZARD DATA

ZZ 121

### Threshold Limited Value

None established for this mixture. (ACGIH 1992-93). Toxicity: Orl-rat: LD50: 2200 mg/kg. Death has been reported at levels of 45-106 mg/kg (man).

### 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. Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Get medical attention. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION AS MIST:** Remove to fresh air.

## SECTION VI REACTIVITY DATA

| Stability | Unstable | Conditions to Avoid                              |
|-----------|----------|--|
|           | Stable   | X<br>Excessive temperature to cause evaporation. |

| Incompatibility (Materials to Avoid) | None known. |
|--------------------------------------|-------------|
|--------------------------------------|-------------|

| Hazardous Decomposition Products | Thermal decomposition or burning may produce oxides of sulfur. |
|----------------------------------|--|
|----------------------------------|--|

| Hazardous Polymerization |                | Conditions to Avoid |
|--------------------------|----------------|---------------------|
| 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 spill with an inert dry material, sweep up and place in a suitable container for 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 landfill or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

| Respiration Protection (Specify Type) | None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator. |
|---------------------------------------|--|
|---------------------------------------|--|

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

| Protective Gloves | Rubber. | Eye Protection | Chemical safety glasses. |
|-------------------|---------|----------------|--------------------------|
|-------------------|---------|----------------|--------------------------|

| Other Protective Equipment | Lab coat, apron, eye wash station, proper gloves. |
|----------------------------|---|
|----------------------------|---|

## SECTION IX SPECIAL PRECAUTIONS

| Precautions to be Taken in Handling & Storing | Store in a cool, dry place.<br>Wash thoroughly after handling. |
|---|--|
|---|--|

| Other Precautions | Read label on container before using. Do not wear contact lenses when working with chemicals. |
|-------------------|---|
|-------------------|---|

Avoid contact with skin, eyes and clothing.  
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 | 6/3/99 | Approved | Michael Raszeja | Chemical Safety Coordinator | MR |
|----------|-------|------|--------|----------|-----------------|-----------------------------|----|
|----------|-------|------|--------|----------|-----------------|-----------------------------|----|

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           | ZINC SULFATE 0.1 MOLAR SOLUTION |
|-------------------|---------------------------------|
| Chemical Synonyms | Zinc Sulfate Aqueous Solution   |
| Formula           | Mixture.                        |
| Unit Size         | up to 3.785 Lt.                 |
| C.A.S. No.        | Mixture.                        |

CHEMTREC  
800-424-9300  
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NFPA HAZARD RATING  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

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

HMIS \*  
HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s)            | %     | TLV Units         |
|-----------------------------------|-------|-------------------|
| Zinc Sulfate: (CAS No. 7733-02-0) | 1.6%  | None established. |
| Water: (CAS No. 7732-18-5)        | 98.4% | None established. |

**WARNING! MAY BE HARMFUL IF SWALLOWED.**

**MAY CAUSE EYE OR SKIN IRRITATION.**

## SECTION III PHYSICAL DATA

|                        |   |   |                       |
|------------------------|---|---|-----------------------|
| Melting Point (°F)     | Freezes approx. 0°C (32°F)                          | Specific Gravity (H <sub>2</sub> O = 1) | Approx. 1.0           |
| Boiling Point (°F)     | Approx. 100°C (212°F)                               | Percent Volatile by Volume (%)          | 98.4%                 |
| Vapor Pressure (mm Hg) | 14 (water).   | Evaporation Rate (Water = 1)            | Slightly less than 1. |
| Vapor Density (Air=1)  | 0.7 (water).  |   |                       |
| Solubility in Water    | Complete.   |   |                       |
| Appearance & Odor      | Clear, water white liquid, water solution; 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 |
|---------------------------|---|-------------------------------------|-----|-------|-------|
| Extinguisher Media        | Use any media suitable for extinguishing supporting fire. |                                     |     |       |       |

### SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

### 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.

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