



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. ZZ 91
Effective Date June 3, 1999

SECTION V HEALTH HAZARD DATA

ZZ 91

Threshold Limited Value None established for this mixture. (ACGIH 1992-93). As Zinc fume: OSHA - PEL 5 mg/m³; TLV 5 mg/m³; (as Zinc Oxide) STEL 10 mg/m³.

Effects of Overexposure Contact with skin or eyes may cause irritation. Ingestion may cause nausea, vomiting, headaches, dizziness, gastrointestinal irritation. 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, induce vomiting and call a physician. 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 | Excessive temperature to cause evaporation. |
| | Stable | X | | |

Incompatibility (Materials to Avoid) Combustible materials, reducing agents, strong acids.

Hazardous Decomposition Products Yields toxic gaseous oxides of nitrogen when involved in fire.

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

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Absorb spill in vermiculite, sand, earth, paper towel 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 chemical 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 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. Avoid contact with skin and eyes. 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. 5 | 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 NITRATE 0.1 MOLAR AQ. SOL'N |
| Chemical Synonyms | Zinc Nitrate, Water Solution |
| Formula | Mixture. See Section II. |
| Unit Size | up to 4 Lt. |
| C.A.S. No. | Mixture. See Section II. |

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

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

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

HMIS *

| | | | | |
|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|---|--------|-------------------|
| Zinc Nitrate: (CAS No. 7779-88-6) | 1.89% | None established. |
| Water: (CAS No. 7732-18-5) | 98.11% | None established. |
| WARNING! HARMFUL IF SWALLOWED. CONTACT | | |
| MAY CAUSE EYE OR SKIN IRRITATION. | | |

SECTION III PHYSICAL DATA

| | | | |
|------------------------|---|---|-----------------------|
| Melting Point (°F) | Freezes approx. 0°C (32°F) | Specific Gravity (H ₂ O = 1) | Approx. 1.0 |
| Boiling Point (°F) | Approx. 100°C (212°F) | Percent Volatile by Volume (%) | 98.11% |
| 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 | NA | 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. 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, Zinc Nitrate is an active oxidizing material. In contact with easily oxidizable substances it may react rapidly enough to cause ignition, violent combustion or explosion. Increases the flammability of any combustible substance. Yields toxic gaseous oxides of nitrogen when involved in fire.

D.O.T. NON-REGULATED.

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