



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. LL 132
Effective Date November 9, 1998

SECTION V HEALTH HAZARD DATA

LL 132

Threshold Limited Value

None established for Lead Nitrate. (ACGIH 1992-93). TWA for Lead [CAS No. 7439-92-1], inorganic dust and fumes, as Pb 0.15 mg/m³.

Effects of Overexposure

INHALATION AND INGESTION: Acute effects are weakness, fatigue, sleep disturbance, headache, aching bones and muscles, abdominal pains, constipation and decreased appetite. Chronic effects include anemia, pallor, blue "lead line" on the gums, severe headache, convulsions, coma, delirium, kidney injury and possible death.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting. Repeat until vomit fluid is clear. Call physician immediately. 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 for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops, get medical attention. **INHALATION:** If inhaled as dust or mist, remove to fresh air, get medical attention.

SECTION VI REACTIVITY DATA

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

| Incompatibility (Materials to Avoid) | Organic materials, reducing agents. |
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| Hazardous Decomposition Products | Thermal decomposition or burning may produce oxides of nitrogen (NO _x), lead fumes. |
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| 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 in vermiculite, sand, earth, paper towel and place in a suitable container. Wash spill area 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.

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. |
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|---------------------------------------|--|

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

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

| Revision | No. 4 | Date | 11/9/98 | 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 | LEAD NITRATE 1.0 MOLAR AQ. SOL'N |
|-------------------|----------------------------------|
| Chemical Synonyms | Lead 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
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NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

Health 2
Fire 0
Reactivity 1
HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|------------------------------------|-------|-------------------|
| Lead Nitrate: (CAS No. 10099-74-8) | 33.1% | See Section V. |
| Water: (CAS No. 7732-18-5) | 66.9% | None established. |

WARNING! MAY BE HARMFUL IF SWALLOWED.

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 (%) | 66.9% |
| 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; 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. |
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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, Lead 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 fumes of lead and oxides of nitrogen (NO_x).

D.O.T. NON-REGULATED.

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