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MSDS No. AA 183
Effective Date January 18, 1999

AA 183

None established by (ACGIH 1992-93).
Toxicity: LD50: orl-rat 4.28 g/kg as aluminum nitrate.

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.

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.

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

Alkalies.

Thermal decomposition produces aluminum oxide, and nitrogen oxides (NO_x).

Conditions to Avoid

May Occur	Will Not Occur
	X

Not applicable.

Absorb with an inert dry material and place in an appropriate container for proper disposal. Wash spill area thoroughly with soap and water.

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 accordance with federal, state and local regulations.

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

Rubber.	Eye Protection	Chemical safety glasses.
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Lab coat, apron, eye wash station, proper gloves.

Precautions to be Taken in Handling & Storing

Store in a cool place. Wash thoroughly after handling.

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

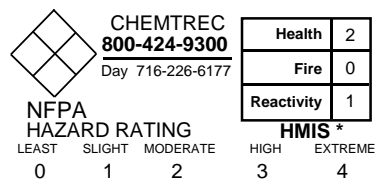
Remove and wash contaminated clothing.

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

Revision	No. 2	Date	1/18/99	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.

Product	ALUMINUM NITRATE, 0.1 MOLAR SOLUTION
Chemical Synonyms	Aluminum Nitrate, Aqueous Solution
Formula	Mixture
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture



Principal Component(s)	%	TLV Units
Aluminum Nitrate: (CAS No. 13473-90-0)	2.13%	None established.
Water: (CAS No. 7732-18-5)	97.87%	None established.

CAUTION! MAY BE HARMFUL IF SWALLOWED.

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)	Percent Volatile by Volume (%)	97.87%
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.		

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. 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