



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. AA 184
Effective Date September 15, 1998

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	ALUMINUM NITRATE, NONAHYDRATE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>3</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	0	Reactivity	3
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
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Health	2																	
Fire	0																	
Reactivity	3																	
Chemical Synonyms	Aluminum Trinitrate; Aluminum (III) Nitrate, Nonahydrate																	
Formula	Al (NO ₃) ₃ •9H ₂ O																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	7784-27-2																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Aluminum Nitrate	100%	2 mg/m ³ as Aluminum
WARNING! STRONG OXIDIZER! HARMFUL IF SWALLOWED. CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE OR EXPLOSION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	70°C (158°F)	Specific Gravity (H ₂ O = 1)	Data not listed.
Boiling Point (°F)	Decomposes @ 135°C (275°F)	Percent Volatile by Volume (%)	Data not listed.
Vapor Pressure (mm Hg)	Data not listed.	Evaporation Rate (=1)	Data not listed.
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	64 grams per 100 mL. water @ 20°C.		
Appearance & Odor	White crystals; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use flooding amounts of water in early stages of fire.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of aluminum dust or vapor and oxides of nitrogen (NO_x). This material is a strong oxidizing agent; can react with organic materials or reducing agents to cause fire or explosion.

D.O.T. ALUMINUM NITRATE, 5.1, UN 1438, PG III

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

SECTION V HEALTH HAZARD DATA AA 184

Threshold Limited Value RTECS No. BD1050000 TWA: 2 mg/m³ as Aluminum (CAS No. 7429-90-5). For soluble salts. (ACGIH 1992-93) TXDS: Oral-rat LD50: 264 mg/Kg.

Effects of Overexposure **INHALATION:** Irritates the respiratory tract. Symptoms may include sore throat, coughing and shortness of breath. **INGESTION:** Toxic! May cause gastroenteritis, abdominal pains and methemoglobinemia. **SKIN:** May cause irritation, symptoms including redness, itching and pain. **EYES:** May cause irritation, symptoms including redness, itching and pain.

Emergency and First Aid Procedures **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If discomfort or illness develops, get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush with water, then wash with mild soap and water.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat. Combustible materials.
	Stable	X		
Incompatibility (Materials to Avoid)	Reducing agents, organic materials.			
Hazardous Decomposition Products	Fire or thermal decomposition emits aluminum dust or vapor and oxides of nitrogen (NO _x).			

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

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Wearing proper protective clothing, sweep up and place in a suitable container for disposal. Avoid dust dispersal.

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 accordance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Goggles, lab coat, proper gloves, eye wash station.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from combustible materials. 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. Deliquescent crystals. Remove and wash contaminated clothing promptly.

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

Revision No. 5	Date 9/15/98	Approved Michael Raszeja	Chemical Safety Coordinator MR
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