



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. AA 165
Effective Date December 10, 1998

SECTION V HEALTH HAZARD DATA

AA 165

Threshold Limited Value 2 mg/m³ as aluminum metal dust (ACGIH, 1992-93)
LD₅₀ orally in rats 3.7 grams per kg.

Effects of Overexposure Aluminum salts may cause dermatitis, eczema, conjunctivitis, irritation of mucous membranes of upper respiratory system. May cause respiratory and digestive tract irritation or possible burns with coughing, choking, nausea, vomiting, diarrhea, melena, hematemesis. Hypotension and convulsions may occur.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Call physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid) Water and moist air.

Hazardous Decomposition Products Thermal decomposition or burning emits highly toxic fumes of hydrochloric acid. May generate oxides of aluminum.

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 Using adequate ventilation and protective clothing. Sweep up 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 accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be 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, smock, apron, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry 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.
Use with adequate ventilation. Remove and wash contaminated clothing. Avoid contact with skin, eyes and clothing.

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

Revision No. 6	Date 12/10/98	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employees 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	ALUMINUM CHLORIDE, HEXAHYDRATE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * HEALTH FIRE REACTIVITY 1 0 1
Chemical Synonyms	Aluminum Chloride, Hexahydrate	
Formula	AlCl ₃ •6H ₂ O	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7784-13-6	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Aluminum Chloride, Hexahydrate	100%	See Section V.

WARNING! CORROSIVE. MAY BE HARMFUL IF SWALLOWED OR

INHALED. CAUSES SKIN AND EYE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes @ 100°C (212°F)	Specific Gravity (H₂O = 1)	2.44
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Boiling Point (°F)	182°C (360°F)	Percent Volatile by Volume (%)	Negligible as solid.
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Vapor Pressure (mm Hg)	1 mm at 100°C	Evaporation Rate (=1)	Not applicable.
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Vapor Density (Air=1)	4.6
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Solubility in Water	1 gram per 0.9 mL.
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Appearance & Odor	Hygroscopic, crystalline powder; no odor.
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SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous; when heated to decomposition, it emits highly toxic fumes of hydrochloric acid.

D.O.T. Corrosive solids, n.o.s., (Aluminum chloride, hexahydrate), 8, UN 1759, PG III

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