



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. AA 166
Effective Date February 16, 1998

SECTION V HEALTH HAZARD DATA

AA166

Threshold Limited Value 2 mg/m³ as aluminum metal dust (ACGIH, 1992-93)
LD₅₀ orally in rats 3450 mg/kg.

Effects of Overexposure Harmful if swallowed. Extremely destructive to tissue of mucous membranes, upper respiratory tract, skin and eyes. Inhalation may result in spasm, inflammation of larynx and bronchi, chemical pneumonitis and pulmonary edema. Prolonged exposure can cause lung damage.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get 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 moisture, temperature and heat.
Stable X

Incompatibility (Materials to Avoid) Reacts violently with water. Alcohols.

Hazardous Decomposition Products Thermal decomposition or burning emits highly toxic fumes of hydrogen chloride gas. May generate oxides of aluminum.

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 Ventilate area. Avoid raising dust. Wear suitable 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 or respirator.

Ventilation **Local Exhaust** Recommended. **Special** No.
Mechanical (General) Recommended. **Other** No.

Protective Gloves Rubber. **Eye Protection** Chemical safety goggles.

Other Protective Equipment Goggles, smock, apron, proper gloves, eye wash station, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Do not allow contact with water. 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.
Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision No. 1 **Date** 2/17/98 **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	ALUMINUM CHLORIDE, ANHYDROUS
Chemical Synonyms	Aluminum Chloride, Anhydrous
Formula	AlCl ₃
Unit Size	up to 2.5 Kg.
C.A.S. No.	7446-70-0

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

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

Health	2
Fire	0
Reactivity	2

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Aluminum Chloride	100%	See Section V.
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WARNING! CORROSIVE. HARMFUL IF SWALLOWED,

INHALED OR ABSORBED THROUGH SKIN. CAUSES SKIN AND EYE BURNS.

SECTION III PHYSICAL DATA

Melting Point (°F)	190°C (374°F)	Specific Gravity (H ₂ O = 1)	2.44
Boiling Point (°F)	182°C (360°F)	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	1 mm at 100°C	Evaporation Rate (≈1)	Not applicable.
Vapor Density (Air=1)	4.6		
Solubility in Water	1 gram per 0.9 mL.		
Appearance & Odor	White to yellow powdered; no odor.		

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	Carbon dioxide, Dry chemical. Do NOT use water.
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SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 137)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas. Dangerous when heated to decomposition, it emits highly toxic fumes.

D.O.T. Aluminum chloride, anhydrous, 8, UN 1726, PG II

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