



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. AA 135
Effective Date January 18, 1999

SECTION V HEALTH HAZARD DATA AA135

Threshold Limited Value TWA 10 mg/m³ (ACGIH 1992-93) as aluminum metal dust.

Effects of Overexposure
INHALATION: It has been reported in the literature that chronic exposure to aluminum dust has been suspected of causing lung injury.
EYES: Particles of aluminum in the eye may cause injury to the cornea.
INGESTION: May cause irritation. Exercise appropriate procedures to minimize potential hazards.

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: Wash thoroughly with soap and water. **EYES:** Immediately flush eyes with plenty of water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INGESTION:** Treat symptomatically and supportively. Get medical attention.

SECTION VI REACTIVITY DATA

Stability
Unstable **Conditions to Avoid** Heat, spark, flame, water, strong oxidizing agents.
Stable X

Incompatibility (Materials to Avoid) Strong oxidizers, acids, alkalis, halogenated compounds, heat and water.

Hazardous Decomposition Products Aluminum reacts with water, acids or alkalis to generate hydrogen.

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 Recover when possible. Sweep material onto paper. Place in a fiber carton. Wash spill area well 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 needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or work in ventilation hood.

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

Protective Gloves Rubber if sensitive to irritation. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, safety glasses, lab coat, fire extinguisher, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a dry place away from acids, alkalis and oxidizers. Dangerous when wet, take precautions. 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.

Remove and wash contaminated clothing.

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

Revision No. 8 **Date** 1/18/99 **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 METAL; Granules, Shot, Sheet, Strips
Chemical Synonyms	Aluminum
Formula	Al
Unit Size	up to 2.5 Kg.
C.A.S. No.	7429-90-5

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0 1

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

NFPA HAZARD RATING
LEAST SLIGHT MODERATE
0 1 2

HMIS *
HIGH EXTREME
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Aluminum Metal; Granules, Shot, Sheet, Strips	>99.5	See Section V.
Silicon: (CAS No. 7440-21-3)	<1.0	5 mg/m ³ (Air).
Iron: (CAS No. 7439-89-6)	<1.0	5 mg/m ³ (Air).

CAUTION! INHALATION AS DUST OR FUME MAY CAUSE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	660°C (1220°F)	Specific Gravity (H ₂ O = 1)	N/A
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	0.095 - 0.113 lb/in ³		
Solubility in Water	Insoluble.		
Appearance & Odor	Silver gray colored metal-fine granules, shot, sheet, strips. No odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Halogenated extinguishing agents should not be used. To control the spread of fire, do not use water. Ring small fire with sand, eliminate drafts, let fire extinguish itself.				

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust clouds may be explosive. Prevent formation of a dust cloud. Bulk dust when damp may heat spontaneously. Hazard greater as fineness increases. Reacts with some acids and caustic solutions to produce hydrogen. Molten aluminum may explode on contact with water. It may also react violently with rust, certain metal oxides (e.g. oxides of copper, iron and lead) and nitrates (e.g. ammonium nitrate and fertilizers containing ammonium nitrate).

D.O.T. **Non Regulated.**

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