



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. AA 285
Effective Date January 23, 1999

SECTION V HEALTH HAZARD DATA

AA 285

Threshold Limited Value

Toxicity data: LD50 oral (rat) = 333 mg/kg.
TWA 5 mg (Mo)/m³ (ACGIH, 1992-93).

Effects of Overexposure

No cases of human poisoning have been reported. Animal experiments indicate moderate to severe local irritation of skin, eyes and mucous membranes. **INHALATION:** Prolonged exposure to very high dust concentrations can cause systemic toxic effects and upper respiratory tract irritation. Large doses have produced kidney damage in experimental animals. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

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

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Heating above 75°C (167°F) will cause material to decompose.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizers.
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Hazardous Decomposition Products	Thermal decomposition or heating may produce carbon monoxide and/or carbon dioxide, ammonia and oxides of nitrogen.
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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	Recover for use if not contaminated. Sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.
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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.
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Dispose 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 a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber if sensitive to irritation.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Safety glasses, lab coat, apron, and eye wash station.
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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.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Do not get in eyes, on skin or on 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. 5	Date 1/23/99	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.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	AMMONIUM MOLYBDATE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	Health	2
Chemical Synonyms	Ammonium Heptamolybdate		Fire	0
Formula	(NH ₄) ₆ Mo ₇ O ₂₄ •4H ₂ O		Reactivity	1
Unit Size	up to 2.5 Kg.		HMIS *	
C.A.S. No.	12054-85-2			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ammonium Heptamolybdate, Tetrahydrate	100%	See Section V.

CAUTION! IRRITANT TO EYES, SKIN

AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 190°C (374°F)	Specific Gravity (H ₂ O = 1)	2.276
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	N/A		
Solubility in Water	63.5 gm/100 ml at 25°C		
Appearance & Odor	White to greenish crystalline powder; slight odor of ammonia.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible.	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

Subjected to the heat of a fire it will decompose to Ammonia, water and Molybdenum trioxide.

D.O.T. NON-REGULATED.

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