



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W.Henrietta Rd.
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(716) 226-6177

MSDS No. AA 353
Effective Date September 30, 1998

SECTION V HEALTH HAZARD DATA

AA 353

Threshold Limited Value

None established (ACGIH 1992-93). TLV as (V₂O₅ dust) 0.05 mg/cu. m.
Toxicity data; Oral-rat LD50: 160 mg/kg, ipr-rat: 18 mg/kg.

Effects of Overexposure

Toxic by ingestion and inhalation. Dust may cause cough, tightness of chest, and irritation of eyes, skin and respiratory tract. Also possible: chest disease, elevated blood pressure, tremor, tongue discoloration. Medical conditions aggravated by exposure: respiratory and heart conditions. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Dusting, moisture from air, temperatures above 200°C.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong caustics.
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Hazardous Decomposition Products	Thermal decomposition products may include Ammonia, Vanadine pentoxide, Nitrous oxides.
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Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal.
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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 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, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves, ventilation hood.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated area, away from caustic type materials. Wash thoroughly after handling.
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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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Avoid contact with eyes, skin and clothing. Do not breathe dust. Use with adequate ventilation. Do not take internally. Remove and wash contaminated clothing.

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

Revision No. 4	Date 9/30/98	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 VANADATE, META	<div><div><div>0</div><div>2</div><div>0</div></div><div>CHEMTREC 800-424-9300 Day 716-226-6177</div><div>NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4</div><div>HMIS * 3 0 1</div></div>
Chemical Synonyms	Ammonium Meta Vanadate	
Formula	NH ₄ VO ₃	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7803-55-6	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ammonium Meta Vanadate	100%	None established.

DANGER! **POISON. FATAL IF SWALLOWED. HARMFUL IF INHALED.**

CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 200°C (392°F)	Specific Gravity (H ₂ O = 1)	2.33
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	Not applicable.
Vapor Density (Air=1)	Unknown.		
Solubility in Water	Slight.		
Appearance & Odor	Ivory to pale brown crystalline powder; odorless.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products as dust or fumes of nitrous oxides (NO_x), vanadium oxide.

D.O.T. AMMONIUM METAVANADATE, 6.1, UN 2859, PG II

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