



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. AA 325  
Effective Date January 23, 1999

## SECTION V HEALTH HAZARD DATA

AA 325

**Threshold Limited Value** None established for this product (ACGIH 1992-93).  
RTECS No. BS4500000 Toxicity studies: Oral-rat LD50: 3000 mg/Kg.

**Effects of Overexposure** Inhalation of dusts may be irritating to lungs and mucous membranes. Causes sneezing, mild nosebleed to sensitized persons. Ingestion may cause irritation to digestive tract. May cause skin and eye irritation. 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 and call physician. Never give anything by mouth to an unconscious person. **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:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>	X	<b>Conditions to Avoid</b>	Excessive temperature and heat.
	<b>Stable</b>			

**Incompatibility (Materials to Avoid)** Strong oxidizers (Potassium chlorate, Potassium nitrate, Potassium nitrite).

**Hazardous Decomposition Products** Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, nitrogen oxides, sulfur oxides, ammonia.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Not applicable.
	<b>May Occur</b>	<b>Will Not Occur</b>	
		X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Wear protective equipment and use adequate ventilation. Recover for use if not contaminated. Avoid creating dust. Sweep up spill 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. For small spills, dissolve in water and flush to sewer with copious amounts of water. For large spills, 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 exist work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	No.

<b>Protective Gloves</b>	Rubber	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Goggles, lab coat, proper gloves, eye wash station, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place. Keep container tightly closed when not in use. Wash thoroughly after handling.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid breathing dust. Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.

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

<b>Revision</b> No. 6	<b>Date</b> 1/23/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> 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

<b>Product</b>	AMMONIUM SULFATE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	0	Reactivity	1
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	0																	
Reactivity	1																	
<b>Chemical Synonyms</b>	Mascagnite; Diammonium Sulfate																	
<b>Formula</b>	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>																	
<b>Unit Size</b>	up to 2.5 Kg.																	
<b>C.A.S. No.</b>	7783-20-2																	

## SECTION II INGREDIENTS OF MIXTURES

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

**WARNING! MAY BE HARMFUL IF SWALLOWED.**

**DO NOT BREATHE DUST.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Decomposes above 280°C (536°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.769 at 20°C
<b>Boiling Point (°F)</b>	N/A	<b>Percent Volatile by Volume (%)</b>	Negligible as solid.
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Evaporation Rate</b>	( =1) Not applicable.
<b>Vapor Density (Air=1)</b>	N/A		
<b>Solubility in Water</b>	70.6 grams per 100 mL. water at 0°C.		
<b>Appearance &amp; Odor</b>	Brownish-gray to white crystals; odorless.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible (NA).	<b>Flammable Limits in Air % by Volume</b>	NA	<b>Lower</b>	<b>Upper</b>
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**Extinguisher Media** Use any media suitable for extinguishing supporting fire.

### SPECIAL FIREFIGHTING PROCEDURES

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Noncombustible. Decomposes above 100°C to toxic ammonia gas. Melts and decomposes with emission of a mixture of ammonia and sulfur trioxide at about 455°F. If accidentally mixed with oxidizers like potassium chlorate, potassium nitrate, or potassium nitrite there is an explosion hazard during a fire.

D.O.T. **NON-REGULATED.**

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