



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. AA 310  
Effective Date January 23, 1999

## SECTION V HEALTH HAZARD DATA

AA 310

### Threshold Limited Value

None established by ACGIH 1992-93.

### Effects of Overexposure

Contact with dusts or solutions may cause irritation to skin, eyes and mucous membranes. **INGESTION:** May cause gastrointestinal irritation, with diarrhea, nausea, vomiting and cramps. 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 medical attention. **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. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. If symptoms of illness develop, get medical attention. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	

X

Excessive temperature and heat.

Incompatibility (Materials to Avoid)	Strong alkalies; aluminum, lead, magnesium, steel, methanamine, sodium hypochlorite.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce oxides of phosphorus and nitrogen. Fumes of ammonia.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Polymerizes upon heating liberating ammonia.
X		

## 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. Flush spill area with water. Do not allow wash water to pollute water ways and streams.

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, proper gloves, eye wash station, ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

### Precautions to be Taken in Handling & Storing

Store in a cool, dry place, out of direct sunlight. Protect against physical damage and moisture. Avoid contact with eyes or skin. Wash thoroughly after handling.

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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There is insufficient data in the published literature to assign complete laboratory protective equipment for this product. Special precautions must be used in storage, use and handling. 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 PHOSPHATE, MONOBASIC
Chemical Synonyms	Ammonium Biphosphate, Ammonium Dihydrogen
Formula	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>
Unit Size	up to 2.5 Kg.
C.A.S. No.	7722-76-1

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

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

Health	1
Fire	0
Reactivity	1

HMIS \*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ammonium Phosphate, Monobasic	100%	None Established.
WARNING! CAUSES IRRITATION.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	190°C (374°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.803
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	Not applicable.
Vapor Density (Air=1)	3.98		
Solubility in Water	22.79 grams per 100 mL. water.		
Appearance & Odor	Colorless to white crystalline powder; no odor. Hygroscopic.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

### SPECIAL FIREFIGHTING PROCEDURES

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of ammonia or nitrous oxide (NO<sub>x</sub>).

D.O.T. NON-REGULATED.

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