



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. AA 313
Effective Date January 23, 1999

SECTION V HEALTH HAZARD DATA

AA 313

Threshold Limited Value None established by ACGIH. Exposure limits for dust particulates: 10 mg/m³ TWA, 5 mg/m³ TWA for respirable dust.

Effects of Overexposure
INHALATION: May be irritating to the respiratory tract. **INGESTION:** Extremely large oral dosages may produce gastrointestinal disturbances. **SKIN:** May cause irritation. **EYE CONTACT:** No adverse effects expected but dust may cause mechanical irritation.

Emergency and First Aid Procedures
INHALATION: Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give several glasses of water or milk to drink, induce vomiting. Call physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, while holding eyelids open. Get medical attention if irritation develops.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat. Hygroscopic, protect from moisture.
	Stable	X		

Incompatibility (Materials to Avoid) Ammonium salts react with sodium hypochlorite to form nitrogen trichloride which decomposes explosively. Reacts with alkalis to liberate ammonia.

Hazardous Decomposition Products Gradually loses about 8% ammonia on exposure to air. When heated to decomposition, can emit very toxic fumes of ammonia, oxides of phosphorus and nitrogen.

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	
X		Polymerizes upon heating, liberating ammonia.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Ventilate area of leak or spill. Clean-up personnel may require protective clothing and respiratory protection from dust. Spills - sweep up and place in a proper container for reclamation or disposal. Avoid creating dust. 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.

Dispose of in accordance with local, state and federal 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	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, proper gloves, smock, apron, eye wash station, safety shower, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Keep in tightly closed container. Store in a cool, dry, ventilated area. Protect against physical damage, moisture. 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.
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. 2	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, DIBASIC	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * Health 1 Fire 0 Reactivity 0
Chemical Synonyms	Diammonium Hydrogen Phosphate	
Formula	(NH ₄) ₂ HPO ₄	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7783-28-0	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ammonium Phosphate, Dibasic	99-100%	None established.

CAUTION! CONTACT MAY CAUSE IRRITATION TO SKIN AND EYES

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes at 155°C (311°F)	Specific Gravity (H₂O = 1)	N/A
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	No data.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	1.619		
Solubility in Water	1 gram per 1.7 mL. water.		
Appearance & Odor	White crystals, granular or powder; slight ammonia odor. Hygroscopic.		

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 means suitable for extinguishing surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES

Not considered to be a fire hazard. Wear protective clothing and use a NIOSH/MSHA approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not considered to be an explosion hazard. Thermal decomposition products may be hazardous. These may include irritating ammonia fumes.

D.O.T. NON-REGULATED.

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