



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

221 Rochester Street
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MSDS No.: AA0313
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Ammonium Phosphate, Dibasic
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

 NFPA HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	CHEMTREC 800-424-9300 Day 585-226-6177	<table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	1	Fire	0	Reactivity	0
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Fire	0							
Reactivity	0							
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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 (H ₂ O = 1)	N/A
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (Water =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble.		
Appearance & Odor	White crystalline 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
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.

SECTION V HEALTH HAZARD DATA AA0313

Threshold Limited Value None established by ACGIH. Exposure limits for dust particulates: 10 mg/m³ TWA; 5 mg/m³ 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. Target organs: None known.

Emergency and First Aid Procedures
INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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		Polymerizes upon heating, liberating ammonia.
	May Occur	Will Not Occur	
		X	

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.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Use with adequate ventilation.
Remove and wash contaminated clothing.

Revision No. 3	Date 01/01/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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