




MATERIAL SAFETY DATA SHEET

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MSDS No. AA 310
Effective Date October 23, 1996

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	AMMONIUM PHOSPHATE, MONOBASIC	 CHEMTREC 800-424-9300 Day 716-226-8177 NFPA HAZARD RATING <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>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4
LEAST	SLIGHT		MODERATE	HIGH	EXTREME							
0	1		2	3	4							
Chemical Synonyms	Ammonium Biphosphate, Ammonium Dihydrogen											
Formula	NH ₄ H ₂ PO ₄											
Unit Size	up to 2.5 Kg.											
C.A.S. No.	7722-78-1											

Health	1
Fire	0
Reactivity	1

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)	180°C (374°F)	Specific Gravity (H ₂ 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.		

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_x).

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA

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	X	Conditions to Avoid	As temperature increases the hygroscopicity of product increases.
	Stable			

Incompatibility (Materials to Avoid) Strong alkalis; aluminum, lead, magnesium, steel, methanamine, sodium hypochlorite

Hazardous Decomposition Products Thermal decomposition or burning may produce oxides of phosphorus and nitrogen (PO_x, NO_x). Fumes of an

Hazardous Polymerization	May Occur	Will Not Occur	X	Conditions to Avoid	Not applicable.

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.

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.

Ventilation	Local Exhaust	Yes.	Special	No.
	Mechanical (General)	None required.	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.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place, out of direct sunlight. Avoid contact with eyes or skin. 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. 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. 4	Date 10/23/96	Approved Michael Reazaja	Chemical Safety Coordinator MR
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