



SAFETY DATA SHEET

Name of Product:

DIAMMONIUM PHOSPHATE

Product #: See Section 1
Revision Date: August 14, 2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ammonium Phosphate
SYNONYMS: Diammonium phosphate; DAP; Secondary ammonium phosphate; Diammonium hydrogen phosphate
PRODUCT CODES: I000015, I000091

MANUFACTURER: NACHURS ALPINE SOLUTIONS
DIVISION: Marion
ADDRESS: 421 Leader Street, Marion, OH43302, United States

PHONE: 800-622-4877 (USA)
800-265-2268 (CANADA)

EMERGENCY PHONE: United States: Chemtrec: 800-424-9300
Canada: CANUTEC: 1-613-996-6666
I TECH 877-324-4402

CHEMICAL NAME: Ammonium Phosphate
CHEMICAL FAMILY: Inorganic
CHEMICAL FORMULA: $(\text{NH}_4)_2\text{HPO}_4$

PRODUCT USE: Fire retardant, fertilizer, yeast nutrient

SECTION 2: HAZARDS IDENTIFICATION

GHS ELEMENTS:

Hazard Classification: Skin Irritation (Category 2)
Eye Irritation (Category 2B)
Acute Toxicity – Inhalation (Category 4)

Pictogram:



Signal Word: Warning.

Hazard Statements: Causes skin irritation.
Causes eye irritation.
Harmful if inhaled.

Precautionary Statements: Wear protective gloves, eye and face protection. Wear approved respirator when applicable.
Avoid breathing dust or mist. Use only outdoors or in a well ventilated area.
Wash skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.
If inhaled, remove person to fresh air and keep comfortable for breathing.
If on skin, wash with plenty of water.
If in eyes, rinse cautiously with water for several minutes. Remove contacts if present and easy to do.
Continue rinsing.
Call a poison center or doctor/physician if you feel unwell.
If skin irritation occurs, get medical attention.
If eye irritation persists, get medical attention.

POTENTIAL HEALTH EFFECTS

EYES: May cause moderate irritation, redness and discomfort.
SKIN: May cause mild irritation and discomfort.
INGESTION: May result in gastrointestinal disturbances.
INHALATION: May cause moderate irritation, redness and discomfort.

ACUTE HEALTH HAZARDS: Skin, eye, ingestion and inhalation irritant. Do not breathe in dust from dried product.

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CHRONIC HEALTH HAZARDS: May cause damage to lungs and mucous membranes if dried product is inhaled.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

CARCINOGENICITY:

OSHA:	N/A
ACGIH:	N/A
NTP:	N/A
IARC:	N/A
OTHER:	N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	Ammonium Phosphate	10-45%	CAS# 7783-28-0
	Water	55-90%	CAS# 7732-18-5

SARA 313 REPORTABLE: N/A

OSHA PEL-TWA: N/A
OSHA PEL STEL: N/A
OSHA PEL CEILING: N/A

ACGIH TLV-TWA: N/A
ACGIH TLV STEL: N/A
ACGIH TLV CEILING: N/A

SECTION 4: FIRST AID MEASURES

EYES: Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention.
SKIN: Remove contaminated clothing and shoes. Wash skin with mild soap and water. If irritation persists, seek medical attention.
INGESTION: If conscious, induce vomiting as directed by medical personnel. Seek medical attention.
INHALATION: If inhaled, remove to fresh air. Seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY: Nonflammable

FLAMMABLE LIMITS IN AIR: UPPER: N/A
(% BY VOLUME) LOWER: N/A

FLASH POINT: F°: N/A
C°: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: F°: N/A
C°: N/A

NFPA HAZARD CLASSIFICATION:

HEALTH:	1
FLAMMABILITY:	0
REACTIVITY:	0
OTHER:	0

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HMIS HAZARD CLASSIFICATION

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
PROTECTION: B

EXTINGUISHING MEDIA: Water or media suitable for surrounding material.

SPECIAL FIRE FIGHTING PROCEDURES: Use SCBA to prevent inhalation of mist and/or fumes that may be generated during fire fighting activities.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: When heated may give off ammonia gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: In the case of a spill, contain spill and maximize recovery. Mop up or pump up into plastic containers for reuse if possible.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in suitable containers made of mild steel, stainless steel, plastic or fiberglass.
OTHER PRECAUTIONS: General safety and industrial hygienic practices should always be followed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION: Provide adequate ventilation for local areas. If hazardous decomposition products are present use explosion proof mechanical ventilation.

RESPIRATORY PROTECTION: Respiratory protection is not required under normal circumstances. If heated to evolve decomposition products, use appropriate protection. If misted by agitation or spray, use a mist respirator approved by NIOSH. Do not use single use type.

EYE PROTECTION: Safety glasses/goggles and full face shield.

SKIN PROTECTION: Chemical resistant gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Long sleeved clothing to prevent skin contact.

WORK HYGIENIC PRACTICES: Always follow good safety and industrial hygienic practices when handling this product.

EXPOSURE GUIDELINES: See section 3.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Translucent, nearly colorless liquid.

ODOR: No apparent odor and/or mild ammonia.

ODOR THRESHOLD: No data available.

PHYSICAL STATE: Liquid.

pH AS SUPPLIED: 6.0-10.5

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MELTING POINT:	N/A
FREEZING POINT:	F°: N/A C°: N/A
BOILING POINT:	F°: N/A C°: N/A
FLASH POINT:	F°: N/A C°: N/A
METHOD USED:	N/A
EVAPORATION RATE:	N/A
FLAMABILITY:	Not flammable.
FLAMMABLE LIMITS IN AIR: (% BY VOLUME)	UPPER: N/A LOWER: N/A
VAPOR PRESSURE (mmHg):	N/A
VAPOR DENSITY (AIR = 1):	N/A
SPECIFIC GRAVITY (H ₂ O = 1)	1.10-1.28
DENSITY, LBS/GAL:	9.1-10.7
SOLUBILITY IN WATER:	Complete
PARTITION COEFFICIENT:	n-octanol/water – N/A
PERCENT SOLIDS BY WEIGHT:	N/A
PERCENT VOLATILE:	N/A
VOLATILE ORGANIC COMPOUNDS (VOC):	N/A
AUTOIGNITION TEMPERATURE:	N/A
THERMON DECOMPOSITIONS:	N/A
MOLECULAR WEIGHT:	N/A
VISCOSITY:	N/A

SECTION 10: STABILITY AND REACTIVITY

	STABLE	UNSTABLE
STABILITY:	x	
CONDITIONS TO AVOID (STABILITY):		Extreme heat or fire may decompose to toxic gases.
INCOMPATIBILITY (MATERIAL TO AVOID):		Sodium Hypochlorite.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:		When heated may give off ammonia gas.

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HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Acute Toxicity – LD50 Oral, Rat – 6500 mg/kg (100% basis)
Acute Toxicity – LD50 Dermal, Rat - >5000 mg/kg (100% basis)
Skin Corrosion/Irritation – No data available.
Serious Eye Damage/Eye Irritation – No data available.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not allow into drinking water.

Toxicity to fish LC50 – Pimephales promelas (fathead minnow) – 155 mg/L 96h (100% basis)
Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia (water flea) – 140 mg/L (100% basis)

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Reclaim and reuse as much as possible. Dispose in accordance with all federal, state, and local regulations.

RCRA HAZARD CLASS: N/A

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: Ammonium Phosphate Solution
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: N/A

Health: 1 Flammability: 0 Reactivity: 0 Specific: None

WATER TRANSPORTATION:

PROPER SHIPPING NAME: Ammonium Phosphate Solution
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

Health: 1 Flammability: 0 Reactivity: 0 Specific: None

AIR TRANSPORTATION

PROPER SHIPPING NAME: Ammonium Phosphate Solution
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

Health: 1 Flammability: 0 Reactivity: 0 Specific: None

OTHER AGENCIES:

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): Yes

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS: N/A

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: *Technical Services*

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