



SAFETY DATA SHEET

Name of Product:

MONOAMMONIUM PHOSPHATE

Product #: I000050
Revision Date: August 14, 2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ammonium Phosphate
SYNONYMS: Monoammonium phosphate; MAP; Primary ammonium phosphate; Ammonium dihydrogen phosphate; Ammonium biphosphate
PRODUCT CODES: I000050
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: (NH₄) H₂PO₄

SECTION 2: HAZARDS IDENTIFICATION

GHS ELEMENTS:

Hazard Classification: Skin Irritation (Category 2)
Eye Irritation (Category 2B)
Acute Toxicity – Inhalation (Category 4)
Acute hazard to the aquatic environment (Category 3)
Chronic hazard to the aquatic environment (Category 4).

Pictogram:



Signal Word: Warning.

Hazard Statements: Causes skin irritation.
Causes eye irritation.
Harmful if inhaled.
Harmful to aquatic life.
May cause long lasting harmful effects to aquatic life.

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.

SAFETY DATA SHEET

Product #: I000050

Name of Product: **MONOAMMONIUM PHOSPHATE**

Revision Date: August 14, 2015

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.

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: Monoammonium Phosphate 5-25% CAS# 7722-76-1

Water 75-95% 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. Seek medical attention.

SKIN: Remove contaminated clothing and shoes. Wash skin with mild soap and water. If irritation persists, seek medical attention.

INGESTION: DO NOT INDUCE VOMITING. 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

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:

SAFETY DATA SHEET

Product #: I000050

Name of Product: **MONOAMMONIUM PHOSPHATE**

Revision Date: August 14, 2015

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

HMIS HAZARD CLASSIFICATION

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

EXTINGUISHING MEDIA: Water or media suitable for surrounding material.

SPECIAL FIRE FIGHTING PROCEDURES: Positive pressure self contained breathing apparatus should be used when there is a potential for inhalation of vapors and/or fumes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

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: N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION: Local ventilation is adequate under normal use conditions. 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 and long sleeved clothing to prevent skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Always follow good safety and industrial hygienic practices.

EXPOSURE GUIDELINES: See section 3.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Translucent, nearly colorless liquid.

ODOR: No apparent odor and/or mild ammonia.

SAFETY DATA SHEET

Product #: I000050

Name of Product: **MONOAMMONIUM PHOSPHATE**

Revision Date: August 14, 2015

ODOR THRESHOLD: No data available.

PHYSICAL STATE: Liquid.

pH AS SUPPLIED: 2.5-4.0

BOILING POINT:
F°: N/A
C°: N/A

MELTING POINT:
F°: N/A
C°: N/A

FREEZING 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 (H₂O = 1) 1.04-1.15

DENSITY, LBS/GAL: 8.6-9.6

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): None

AUTOIGNITION TEMPERATURE: N/A

THERMON DECOMPOSITIONS: N/A

MOLECULAR WEIGHT: 115.03

VISCOSITY: N/A

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

SAFETY DATA SHEET

Product #: I000050

Name of Product: **MONOAMMONIUM PHOSPHATE**

Revision Date: August 14, 2015

STABILITY: x

CONDITIONS TO AVOID (STABILITY): When heated (e.g. in a fire) may decompose to toxic gases.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong bases; strong oxidizing agents; strong reducing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of phosphorus, nitrogen oxides (NOx), ammonia.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Acute Toxicity – LD50 Oral, Rat – >2000 mg/kg (100% basis)
Acute Toxicity – LD50 Dermal, Rat - >5000 mg/kg (100% basis)
Skin Corrosion/Irritation – Rabbit – No skin irritation 24h.
Serious Eye Damage/Eye Irritation – Rabbit – No eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not allow into drinking water. Harmful to aquatic life and may cause lasting harmful effects to aquatic life.

Toxicity to fish static test LC50 – Oncorhynchus mykiss (rainbow trout) – >85.9 mg/L 96h (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

SAFETY DATA SHEET

Product #: I000050

Name of Product: **MONOAMMONIUM PHOSPHATE**

Revision Date: August 14, 2015

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

OTHER AGENCIES:

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*

DISCLAIMER: The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and NACHURS ALPINE SOLUTIONS will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

"NASi" is a trademark of Nachurs Alpine Solutions.