

SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ammonium monohydrogen phosphate**

PRODUCT NUMBER: 1078

CAS NUMBER: 7783-28-0

SYNONYM: Ammonium phosphate dibasic, Diammonium hydrogen phosphate, di-Ammonium hydrogen phosphate, Ammonium hydrogen phosphate

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Acute toxicity, oral: Maybe harmful if swallowed.	Category – 5
Acute toxicity, dermal: Harmful in contact with skin.	Category – 3
Acute toxicity, inhalation: Harmful if inhaled.	Category – 4
Spacific target organ toxicity, single exposure; Respiratory tract irritation.	Category – 3

Not classified as a hazardous substance according to the GHS.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $(NH_4)_2HPO_4$

Molecular Weight: 132.06

CHEMICAL NAME	CAS#	%
Ammonium monohydrogen phosphate	7783-28-0	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Check for and remove contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
SKIN EXPOSURE: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
INGESTION: Do NOT induce vomiting unless direct to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Nitrogen oxides, oxides of phosphorus, ammonia

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Always wear appropriate protective equipment. Avoid dust formation.
ENVIRONMENTAL PRECAUTIONS: Do not let enter drains.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Use appropriate tools to put spilled material in convenient waste container.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid formation of dust. Avoid contact with skin and eyes. Use appropriate exhaust ventilation.
CONDITIONS FOR SAFE STORAGE: Keep container tightly closed and store in a cool, well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.
SKIN PROTECTION: Wear appropriate gloves to prevent skin exposure.
VENTILATION: Handle in an efficient chemical fume hood.
RESPIRATOR: Wear an approved dust respirator. The use of respirators requires a Respirator Protection Program to be in OSHA compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White solid
MOLECULAR WEIGHT: 132.06
BOILING POINT: No data
MELTING POINT: 155° C (dec.)
SPECIFIC GRAVITY: 1.620
VAPOR PRESSURE: Not applicable
SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Not available
INCOMPATIBILITY: Strong oxidizing agents, strong acids, strong bases, and magnesium
DECOMPOSITION PRODUCTS: Nitrogen oxides, oxides of phosphorous

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – Rat – male and female - > 2,000 mg/kg. LC50 Inhalation – Rat – male and female – 4h >5 mg/l – dust/mist. LD50 Dermal – Rat – male and female - > 5,000 mg/kg.
CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.
MUTAGENIC EFFECTS: No data
TETRATOGENIC EFFECTS: No data
RTECS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

Toxicity to fish- LC50-Oncorhynchus mykiss (rainbow trout) – 26.5 mg/l – 96 h flow-through test LC50-Oncorhynchus mykiss (rainbow trout) – 24.8 – 29.4 mg/l – 96 h
LC50-Pimephales promelas (fathead minnow) – 33 mg/l – 96 h static test LC50 – Pimephales promelas (fathead minnow) – 33 mg/l – 96 h

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 313 COMPONENTS: Title compound listed
PENNSYLVANIA RIGHT TO KNOW COMPONENT: Title compound listed
NEW JERSEY RIGHT TO KNOW COMPONENT: Title compound listed

SECTION 16 OTHER INFORMATION

HMIS RATING:
Health: 0 Fire: 0 Physical: 0
NFPA RATING:
Health: 0 Flammability: 0 Reactivity: 0

CAS #: Chemical Abstracts Service Number
LD50: Lethal Dose, 50%
LC50: Lethal Concentration, 50%.
IARC: International Agency for Research on Cancer
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act

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DATE REVISED: 04/26
REVISION SUMMARY: Fax number was removed. Updated section # 2 categories, section # 15 with SARA information and # 16 with abbreviations. All other details in this document about the product remain unchanged. EHS 04/26

Reviewed/Approved by EZ 04/26
EHS / SDS DEPT.