



SAFETY DATA SHEET

SECTION I - IDENTIFICATION

PRODUCT NAME: Ammonium phosphate monobasic
CAS #: 7722-76-1
Manufacturer's Name: CHEM-IS-TRY, INC.
Address: 160-4 LIBERTY ST.
METUCHEN, NJ 08840
Telephone #: (732) 372- 7311 Secondary Telephone No: CHEMTREC
FAX #: (732) 372- 7312 (800) 424-9300
24 Hours a Day

Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals, synthesis of substances

SECTION II - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Synonyms: prim-Ammonium phosphate
Ammonium dihydrogenphosphate
Mono-ammonium phosphate
Formula: H₆NO₄P
Molecular Weight: 115.03 g/mol
CAS-No.: 7722-76-1
EC-No.: 231-764-5

No components need to be disclosed according to the applicable regulations.

SECTION IV - FIRST AID MEASURES

Description of first aid measures

If inhaled, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact, wash off with soap and plenty of water.

In case of eye contact, flush eyes with water as a precaution.
If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed.

The most important known symptoms and effects are described in the labelling (see section II) and/or in section XI

Indication of any immediate medical attention and special treatment needed

No data available

SECTION V - FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x), Oxides of phosphorus

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist, or gas.
For personal protection see section VIII.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section XIII.

SECTION VII - HANDLING AND STORAGE

Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 11: Combustible Solids

Specific end use(s)

Apart from the uses mentioned in section 1, no other specific uses are stipulated.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Exposure controls**Appropriate engineering controls**

General industrial hygiene practice.

Personal protective equipment**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

- | | |
|--------------------|--------------------------------------|
| a) Appearance: | Form: crystalline
Color: white |
| b) Odor: | Odorless |
| c) Odor Threshold: | No data available |
| d) pH: | 3.8 - 4.4 at 50 g/l at 25 °C (77 °F) |

e) Melting point/freezing point:	Melting point/range: 190 °C (374 °F) – dec.
f) Initial boiling point and boiling range:	No data available
g) Flash point:	()No data available
h) Evaporation rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper/lower flammability or explosive limits:	No data available
k) Vapor pressure:	< 0.001 hPa at 20 °C (68 °F) - OECD Test Guideline 104
l) Vapor density:	No data available
m) Relative density:	1.81 g/cm ³ at 20 °C (68 °F) - OECD Test Guideline 109
n) Water solubility:	soluble
o) Partition coefficient: n-octanol/water	- Not applicable for inorganic substances
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

Other safety information

Bulk density: 1000 kg/m³

SECTION X - STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Strong oxidizing agents, Strong acids, sodium hypochlorite

Hazardous decomposition products

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NO_x), Oxides of phosphorus
Other decomposition products - No data available
In the event of fire: see section 5

SECTION XI - TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 425)
LC50 Inhalation - Rat - male and female - 4 h - > 5 mg/l
(OECD Test Guideline 403)
Remarks: (in analogy to similar products)
LD50 Dermal - Rat - male and female - > 5,000 mg/kg
(OECD Test Guideline 402)
No data available

Skin corrosion/irritation:

Skin - Rabbit
Result: No skin irritation - 24 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation:

Eyes - Rabbit
Result: No eye irritation

Respiratory or skin sensitization:

Local lymph node assay (LLNA) - Mouse
Result: negative
(OECD Test Guideline 429)

Germ cell mutagenicity:

In vitro mammalian cell gene mutation test
mouse lymphoma cells
Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 250 mg/kg
(in analogy to similar products)

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION XII - ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 85.9 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - > 97.1 mg/l - 72 h
(OECD Test Guideline 201)

Toxicity to bacteria

Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking- water supplies. Discharge into the environment must be avoided.

SECTION XIII - DISPOSAL CONSIDERATIONS**Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION XIV - TRANSPORT INFORMATION**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION XV - REGULATORY INFORMATION**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Ammonium dihydrogenorthophosphate	CAS-No. 7722-76-1	Revision Date
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New Jersey Right To Know Components

Ammonium dihydrogenorthophosphate	CAS-No. 7722-76-1	Revision Date
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SECTION XVI - OTHER INFORMATION**Disclaimer:**

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