



SAFETY DATA SHEET

(according to (EC) 1907/2006)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Ammonium Phosphate Monobasic

Synonyms: Ammonium acid phosphate Ammonium biphosphate Monoammonium dihydrogen phosphate

1.2. Relevant identified uses of the substance or mixture and uses advised against

Not applicable

1.3. Details of the supplier of the safety data sheet

Manufacturer Information: Vertellus Health & Specialty
Products LLC, P.O. Box 730,
Delaware Water Gap, PA 18327
USA

Non-Emergency Fax Number: 570-421-9012
E-Mail Address: msds@vertellus.com

Non-Emergency Phone Number: 800-344-3426

1.4. Emergency telephone number

Vertellus: 800-344-3426
CHEMTREC (USA): (800) 424-9300
(collect calls accepted); (Int'l): (703) 527-3887
(collect calls accepted; 011 prefix not needed)

SECTION 2: Hazards identification

HMIS Rating	
HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

2.1. Classification of the substance or mixture

(According to Regulation (EC) No 1272/2008)

Acute Toxicity Oral Category 1

Signal Word:

Danger

Hazard Precautions:

H300 - Fatal if swallowed.

2.2. Label elements

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Hazard Symbols (Pictogram):



Prevention Precautions:

P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.

First Aid Precautions:

P330 - Rinse mouth.
 P321 - Specific treatment (see supplemental information on this label).
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage Precautions:

P405 - Store locked up.

Disposal Precautions:

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

Single Exposure Target Organs:

Not applicable

Repeated Exposure Target Organs:

Not applicable

(According to Directive 67/548/EEC)

Symbol: Not classified as hazardous under this directive.
Risk Phrases: Not classified as hazardous under this directive.
Safety Phrases: Not classified as hazardous under this directive.

2.3. Other hazards

Signs and Symptoms of Potential Overexposure: Coal tar vapors are irritating to the skin, eyes and respiratory tract. Causes respiratory tract irritation
Primary Route(s) of Exposure: Skin contact and absorption, eye contact, ingestion, inhalation.
Medical Conditions Aggravated by Exposure: No data found

SECTION 3: Composition/information on ingredients

3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	EU Symbol	Risk Phrases
Ammonium Phosphate Monobasic	7722-76-1	10000%	231-764-5	N/A	Not applicable



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NOTE: See Section 8 of this MSDS for exposure limit data for these ingredients.
See Section 15 of this MSDS for trade secret information (where applicable).
See Section 16 of this MSDS for the full text of the R-phrases above.

SECTION 4: First aid measures

4.1. Description of first aid measures

- Skin Contact:** Wash with soap and water. Get medical attention if irritation develops or persists.
- Eye Contact:** Rinse eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting the eyelids. GET MEDICAL ATTENTION. Flush eyes with water for at least 15 minutes; if irritation occurs seek medical attention.
- Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. Get medical attention immediately.
- Ingestion:** If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Acute:** Coal tar vapors are irritating to the skin, eyes and respiratory tract. Causes respiratory tract irritation
- Delayed Effects:** None known.

4.3. Indication of any immediate medical attention and special treatment needed

- Thermal Exposure:** Not applicable.
- Note to Physician:** No additional first aid information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media: Dry chemical Water spray Carbon dioxide Alcohol foam

5.2. Special hazards arising from the substance or mixture

- Hazardous Products of Combustion:** None Known
- Potential for Dust Explosion:** Not known to be sensitive to mechanical impact or static discharges.
- Special Flammability Hazards:** Not applicable.

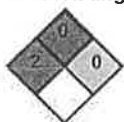
5.3. Advice for firefighters

- Basic Fire Fighting Guidance:** Evacuate area and fight fire from a safe distance.
As in any fire, wear pressure-demand self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
Use NIOSH approved chemical cartridge-respirator or self-contained breathing apparatus.
Material will burn in a fire.
- Flammability Classification (OSHA):** Not applicable.



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NFPA Rating



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuation Procedures: Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Special Instructions: Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded.

6.2. Environmental precautions

Prevent releases to soils, drains, sewers, and waterways.

6.3. Methods and material for containment and cleaning up

Containment Techniques and Clean-up Procedures: LARGE SPILLS: Shut off leak if safe to do so. Contain spilled liquid with sand clay. DO NOT use combustible materials such as sawdust. Retain all contaminated water for treatment.

Special Reporting Requirements: Not applicable.

6.4. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for Unique Hazards: Not applicable.

Practices to Minimize Risk: Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material.

Special Handling Equipment: Not applicable.

7.2. Conditions for safe storage, including any incompatibilities

Storage Precautions & Recommendations: Keep container closed when not in use.

Dangerous Incompatibility Reactions: Strong acids. Strong alkalis Keep away from halocarbons, halogens, combustible materials and oxidizing agents.

Incompatibilities with Materials of Construction: none known

7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer



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to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits (United States):	OSHA PEL:	Not established	ACGIH TLV:	Not established
Exposure Limits (UK):	OSHA PEL:	Not established		

8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

Personal Protective Equipment:	Use chemical goggles, faceshields, boots and impervious clothing, if conditions involve potential for splashing or spraying. Chemical goggles; face shields if necessary.
Respirator Caution:	Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.
Ventilation:	All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided. Use process enclosures to control the level of dust in the air. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, the work atmosphere may be deficient of oxygen, or any other circumstances where air purifying respirators may not provide adequate protection, for example, when air purifying respirators have a short break-through time. If an exposure limit is exceeded provide respiratory protection.
Other Engineering Controls:	All appropriate engineering controls should be used to minimize exposure potential. Use exhaust ventilation to keep airborne concentrations below exposure limits.
Thermal Hazards:	Not applicable.
Additive or Synergistic Effects:	None known.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance, State & Odor (ambient temperature):	Crystals Essentially odorless		
Molecular Formula:	Not applicable	Molecular Weight:	Not applicable
Vapor Pressure:	Not applicable	Evaporation Rate:	Not applicable
Specific Gravity or Density:	1.8000000	Vapor Density (air = 1):	Not applicable
Boiling Point:	Not applicable	Freezing / Melting Point:	Code: Code:
Solubility in Water:	lg/2.5ml	Octanol / Water Coefficient:	Not applicable



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pH:		Odor Threshold:	Not applicable
Viscosity:	Not applicable	Autoignition Temperature:	Not applicable
Flash Point and Method:	(Not applicable) (Not applicable)	Flammable Limits:	Not applicable (LEL) – Not applicable (UEL)

9.2. Other information

Not applicable.

SECTION 10: Stability and reactivity

<u>10.1. Reactivity</u>	Not classified as dangerously reactive.
<u>10.2. Chemical stability</u>	Stable
<u>10.3. Possibility of hazardous reactions</u>	Hazardous polymerization will not occur
<u>10.4. Conditions to avoid</u>	Avoid static discharge and uncontrolled exposure to high temperatures. Ferrous metals. Do not allow oil soaked materials to dry.
<u>10.5. Incompatible materials</u>	Strong acids. Strong alkalis Keep away from halocarbons, halogens, combustible materials and oxidizing agents.
<u>10.6. Hazardous decomposition products</u>	Products of incomplete combustion may include CO, CO ₂ , NO _x , and dense smoke.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Oral LD ₅₀ :	Oral LD50 (mouse) 2 mg/kg
Acute Dermal LD ₅₀ :	Dermal LD50 (rabbit) > 7940 mg/kg
Acute Inhalation LC ₅₀ :	Not available.
Skin Irritation:	No data available.
Skin Sensitization:	No data available.
Eye Irritation:	No data available.
Target Organs:	No data available.
Carcinogenicity:	No data available.
Teratogenicity:	No data available.
Reproduction:	No data available.
Neurotoxicity:	No data available.
Mutagenicity:	No data available.
Additional Toxicity Information:	Not available.



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SECTION 12: Ecological information

<u>12.1. Toxicity</u>	Code:
<u>12.2. Persistence and degradability</u>	No data No data available.
<u>12.3. Bioaccumulative potential</u>	No data
<u>12.4. Mobility in soil</u>	No data
<u>12.5. Results of PBT and vPvB assessment</u>	Not available.
<u>12.6. Other adverse effects</u>	No data available. Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

US EPA Waste Number: Not applicable

Waste Disposal: Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

SECTION 14: Transport information

<u>14.1. UN number</u>	Not applicable
<u>14.2. UN proper shipping name</u>	Chemicals, n.o.s. (Ammonium Phosphate Monobasic)
<u>14.3. Transport hazard class(es)</u>	Not applicable
<u>14.4. Packing group</u>	Not applicable
<u>14.5. Environmental hazards</u>	Not applicable
<u>14.6. Special precautions for user</u>	Not available.
NA Emergency Guidebook Numbers: Not applicable	IMDG EMS: Not applicable
<u>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</u>	Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
OSHA Hazards: Not applicable.



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WHMIS Classification: Class D, Division 2, Subdivision B: Toxic Material.

Chemical Inventory Lists:	Status
TSCA:	15TSCA010
EINECS:	231-764-5
Canada(DSL/NDL):	DSL
Japan:	(1)-379
Korea:	KE-01656
Australia:	Present
New Zealand:	Present
China:	Present
Philippines:	Present
Switzerland:	Not Listed

New Zealand GHS Classification: 6.3B, 6.4A (Approval number: HSR002768)

Japan GHS Classification: Non classificato da questo paese.

Korea (MOL) GHS Classification: Non classificato da questo paese.

Australia GHS Classification: Non classificato da questo paese.

Taiwan GHS Classification: Non classificato da questo paese.

Indonesia GHS Classification: Non classificato da questo paese.

SARA 313: 15SARAH030
15SARAH020
15SARAP020
15SARAP030

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Full text of R phrases in Section 3: Not applicable

