

Material Safety Data Sheet

Ammonium Phosphate, Dibasic, ACS

Section 1 - Chemical Product and Company Identification

MSDS Name:

Ammonium Phosphate, Dibasic, ACS

Catalog Numbers:

C1650

Synonyms:

Diammonium hydrogen phosphate

Company:

Lab Alley LLC
22111 Highway 71 West, Suite 601
Spicewood, Texas 78669
Tel.: 512-668-9918
www.laballey.com

Emergency Phone Number:

InfoTrac: 800-535-5053

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7783-28-0	Ammonium phosphate, dibasic	100

Section 3 - Hazards Identification

Emergency Overview

Appearance: *White crystalline powder***Caution.** May cause eye, skin, and respiratory tract irritation.**Target Organs:** *None known.*

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found.

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Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

Autoignition Temperature:

Not applicable.

Flash Point:

Not applicable.

NFPA Rating:

Not available.

Explosion Limits:

Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

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Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.

Storage:

Store in a tightly closed container in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Ammonium phosphate, dibasic	none listed	none listed	none listed

OSHA Vacated PELs:

Diammonium hydrogen phosphate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Crystalline powder
Color:	White
Odor:	Odorless
pH:	8 (5% soln)
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate:	Negligible
Viscosity:	Not available
Boiling Point:	Decomposes
Freezing/Melting Point:	235 °C

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Decomposition Temperature: >280°C
Solubility in water: Soluble
Specific Gravity/Density: 1.619
Molecular Formula: (NH₄)₂HPO₄
Molecular Weight: 132.06

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures. Gradually loses about 8% NH₃ on exposure to air.

Conditions to Avoid:

Dust generation, excess heat, prolonged exposure to air.

Incompatibilities with Other Materials:

No significant incompatibilities identified with common materials and contaminants.

Hazardous Decomposition Products:

Oxides of phosphorus, nitrogen oxides (NO_x) and ammonia (NH₃).

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7783-28-0: unlisted.

LD50/LC50:

CAS# 7783-28-0: Not available.

Carcinogenicity:

CAS# 7783-28-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

No information found

Neurotoxicity:

No information found

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

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Section 14 - Transport Information

US DOT

Shipping Name: Not regulated
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7783-28-0 is listed on the TSCA inventory.

SARA Reportable Quantities (RQ):

None of the chemicals in this material have an RQ.

CERCLA/SARA Section 313:

No chemicals are reportable under Section 313.

OSHA - Highly Hazardous:

None of the chemicals in this product are considered highly hazardous by OSHA.

US State

State Right to Know:

CAS# 7783-28-0 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, Florida, or New Jersey.

California Regulations:

None.

European/International Regulations

Canadian DSL/NDL:

CAS# 7783-28-0 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7783-28-0 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 8, 2007

Revision Date: None

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