



Diammonium Phosphate, Tech Grade

SAFETY DATA SHEET

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SDS#: 1177

Review/Revision Date: 07/19/19

SECTION 1 - General Information And Chemical Product Identification

Trade Name: **Diammonium Phosphate, Tech Grade**

CAS #: **7783-28-0**

Chemical Name: **Ammonium Phosphate, Dibasic**

Product Code:

DAPTSAC

Application/Uses/ **Used in fertilizer preparation**

Restrictions **None listed**

Distributor Information **LidoChem, Inc. 20 Village Court, Hazlet, NJ 07730, Phone: (732) 888 8000
Fax: (732) 264 2751 * email: info@lidochem.com**

Emergency phone #: **CHEMTREC - Day or Night - at 800 424 9300**

SECTION 2 - Hazard(s) Identification

Classification of the substance or mixture (GHS-US)

Not a hazardous substance or mixture.

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

No label elements required

PREVENTION: Not Applicable

RESPONSE: Not Applicable

STORAGE: Not Applicable

DISPOSAL: Dispose of contents/container to local, state and federal regulations.

Physical Hazards

None

Hazard Statement

OSHA Defined Hazards

This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

HNOC - Hazards Not Otherwise Classified

No other hazards classified

Signal

Word

None

SECTION 3 Composition/information On Ingredients

Molecular Weight: **132.06**

Chemical FORMULA: **(NH₄)₂ H PO₄**

CAS#:	Common Name/Synonyms:	% by Wt.
7783-28-0	Ammonium Phosphate, Dibasic	100%

SECTION 4 - First Aid Information**Description of first aid measures****General Advice:**

Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

If Inhaled:

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardiopulmonary resuscitation).

In Case Of Skin Contact:

Product may irritate the skin. In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before reuse.

In Case Of Eye Contact:

Flush eyes with large quantities of running water for a minimum of 15 minutes. If present and easy to do, remove contact lenses. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation occurs.

If Swallowed:

Low acute oral toxicity. Ingestion of large quantities may cause abdominal pain, abdominal cramps, nausea, vomiting, diarrhea. Give several glasses of water. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.** If vomiting occurs, keep head below hips to reduce risk of aspiration. Give fluids again. Seek medical attention if health effects occur. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

Indication of any immediate medical attention and special treatment needed:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5 - Fire And Explosion Data**Suitable Extinguishing Media:**

Use extinguishing method suitable for surrounding fire. Water. Foam. Dry chemical powder. Carbon dioxide (CO₂)
Not considered to be a fire hazard.

Unsuitable Extinguishing Media:

None known

Specific Hazards arising from the chemical:

Not combustible. Under conditions of fire this material may produce: Ammonia.
Oxides of nitrogen, oxides of phosphorus.

Special protective equipment and precautions for fire-fighters:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Fire-fighting equipment/instructions

Keep unnecessary people away, isolate hazard area and deny entry. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. LARGE FIRES: Dike fire-control water for later disposal. LARGE FIRES: Do not scatter spilled material with high pressure water streams.

Specific Methods

In the event of fire, cool with water spray. Move containers from fire area if you can do so without risk.

Section 6 - Accidental Release Measures**Personal precautions, protective equipment and emergency procedures:**

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment as recommended in Section 8. Wear appropriate protective gear for the situation. Ventilate area of leak or spill. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL.

Environmental Precautions:

Prevent material from entering public sewer system or any waterways. Runoff from fire control or dilution water may cause pollution. Runoff from fire control or dilution water may cause pollution. Prevent material from entering public sewer system or any waterways. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

Methods and Materials for Containment and Clean Up:

Sweep or vacuum up and place in an appropriate closed container. DO NOT RETURN MATERIAL TO ITS ORIGINAL CONTAINER. Clean up residual material by washing area with water and detergent. Prevent material from entering public sewer system or any waterways. If not contaminated, recover and reuse product.

Section 7- Handling and Storage**Precautions for safe handling:**

Avoid direct or prolonged contact with skin and eyes. Avoid generating dust.

Conditions for safe storage:

Store in tightly closed containers. This product is hygroscopic and tends to cake in storage. Store in an area that is cool, dry with a stable temperature away from heat source. Local and general ventilation: Use only with adequate ventilation.

Incompatibilities:

Strong bases, sodium hypo chlorite, combustible materials, reducing agents, acids, alkalis, chlorates, chlorides, chromates, nitrates, perinanganates, metallic powder, substances containing copper, nickel, cobalt, zinc and their alloys.

Section 8 - Exposure Control and Personal Protection**Occupational Exposure Limits:**

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Ammonium Phosphate, Dibasic	7783-28-0	3mg/m3	10mg/m3	ACGIH Threshold Limit Values	None
				ACGIH Threshold Limit Values	
				ACGIH Threshold Limit Values	

Exposure Limits and Appropriate Engineering Controls:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (ACGIH, OSHA and other) apply to this material, where, if indicated, S=skin and C=ceiling limit: ACGH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED : 10mg/cubic meter(INHALABLES)

Individual Protection Measures, (Personal Protective Equipment):**Eye Protection**

Wear Safety Glasses. Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin Protection

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e. shirts and pants). Consideration must be given to both to durability as well as permeation resistance.

Other Protection:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the above listed and following traditional exposure control techniques may be used to effectively minimize employee exposures.

Respiratory Protection

(NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Ventilation Limits:

Provide Natural or Mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Hygienic Practices:

All food / smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.

Section 9 - Physical and Chemical Properties

Appearance And Odor: White granules Ammonia odor

pH: 7.7 - 8.3

Melting Point: May decompose before melting

Freezing Point: No data available

Boiling Point: 225° F

Flash Point: No data available

Evaporation Rate: No data available

Solubilities: 57wt/wt% at 10° C

Specific Gravity: No data available

Bulk Density: 900 kg/m³

Other Information: No data available

Flammable Limits: No data available

UEL: No data available

LEL: No data available

Vapor Pressure(mm/hg): No data available

Vapor Density(air=1): No data available

Autoignition Temp: No data available

Decomposition Temp: No data available

Reactivity In Water: No data available

Viscosity: No data available

Section 10 - Stability and Reactivity**Chemical Stability and Reactivity:**

This material is stable under normal handling and storage conditions.

Possible Hazardous Reactions:

Will not occur under normal processing conditions

Conditions to Avoid:

Extreme heat, rain, dusting conditions, extreme humidity

Incompatible Materials:

Strong bases, sodium hypo chlorite, combustible materials, reducing agents, acids, alkalis, chlorates, chlorides, chromates, nitrates, perinanganates, metallic powder, substances containing copper, nickel, cobalt, zinc and their alloys.

Hazardous Decomposition Products:

Water vapor and toxic gases such as nitrogen oxides, ammonia, chlorine, and hydrogen chloride, phosphoric acid may be given off. Hazardous polymerization does not occur.

Section 11- Toxicological Information

Information On The Likely Routes Of Exposure: Inhalation, Ingestion and Dermal.

Symptoms Related To The Physical, Chemical And Toxicological Effects:

Inhalation Effects:

> 5000 mg/m³, 4 hours

Skin Effects:

> 7940 mg/kg Sprague-Dawley Rabbit

Dermal Toxicity:

> 5000 mg/kg Sprague-Dawley Rat

Eye Effects:

Slightly irritating (Rabbit, 2.2/110.0, 24 hour exp)

Symptoms can include irritation, redness, scratching of the cornea, and tearing.

Ingestion Effects:

Practically Nontoxic (Rat dosage LD50 > 5750 mg/kg)

Sensitization:

No information available.

Carcinogenicity/Mutagenicity:

This product does not contain any ingredients designated by IARC, NTP, ACGIH or OSHA as a probable or suspected human carcinogen. Mutagenicity - lymphocyte result: negative.

Reproductive Effects:

Contains no ingredient listed as toxic to reproduction.

Neurotoxicity:

No data found for this product.

Target Organs:

No data found for this product.

Frequent inhalation of fume/dust over a long period of time increases the risk of developing lung diseases.

Additional Toxicological Information:

None

Section 12- Ecological Information

Ecotoxicity: Daphnia LC50 1790 mg/l, 96 hours; Carp, hawk fish (Cirrhinus mrigala 1700 mg/l, 96 hours)

Degradability: There are no data on the degradability of this product.

Bioaccumulative potential: No data available.

Mobility in the Soil: The product is water soluble and may spread in water systems.

Additional Adverse effect on environment:

LC50 - lethal concentration 50% of test species, 155 mg/l/96 hr, fish: Pimephales promelas.

SECTION 13 - Disposal Considerations**Disposal Instructions and Regulations:**

Chemical additions, processing or otherwise altering material may make the waste management information presented in MSDS incomplete, inaccurate or otherwise inappropriate. Be advised that state/local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state/local regulations regarding proper disposal of this material.

Hazardous Waste Code: Not considered a hazardous waste.

Container Disposal Information:

Be advised that state/local requirements for container disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state/local regulations regarding proper disposal of container.

Section 14 - Transport Information**US DOT, IATA, IMO, ADR:**

Proper Shipping Name: Ammonium Phosphate, Dibasic

D. O. T. Hazard Class: Not Regulated by D.O.T.

UN #: N/A

Label Requirement: None

RQ: N/A

Placard: None

CAS: 7783-28-0

Packing Group: N/A

ERG Book Information: 171

Environment Hazards: N/Ap

Marine Pollutant: N/Ap

Special Precautions: N/Ap

IATA: Not regulated as dangerous goods

Section 15 - Regulatory Information**US Federal - OSHA Status:**

This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

TSCA Status:

Listed/Reportable on the Active TSCA List

U.S. SARA Reporting Requirements:**SARA Title III Hazard Classes Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:**

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

SARA Title III Hazard Classes Sections 311/312:

Immediate (acute) health hazard

SARA Section 313 Toxic Chemicals:

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

CAS# **Chemical Name:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

SARA Superfund Section 110:

This product does not contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

CERCLA, 40 CFR 117, 302:

This product does NOT contain ingredients specified in the List of Extremely Hazardous Substances.

CERCLA listed substances are:

none

Other Federal Reporting Requirements:

CAA: This product does NOT contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act

CWA: NO chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

RCRA: NOT considered a hazardous waste.

State Reporting Requirements:**State Right to Know Laws:**

CAS#	State RTK	Chemical Name
		None

CALIFORNIA PROPOSITION 65:

To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Michigan Critical Materials:

This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

Global Lists/International Inventories:

Canada CEPA: All intentional ingredients are listed on the DSL.

Canada WHMIS: Not controlled.

SECTION 16 - Other Information**Medical Conditions Possibly Aggravated by Exposure:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. **Notes to Physician:**

Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the feces with the diarrhea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity. Treatment should take into consideration both anionic and cation portion of the molecule. The following treatments should be considered for the specific group(s) of phosphate salts found in this product.

All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcemia, so calcium levels should be monitored.

Ammonium salts have a hypothetical risk of ammonia toxicity. In addition to calcium levels, ammonia and phosphate levels should be monitored.

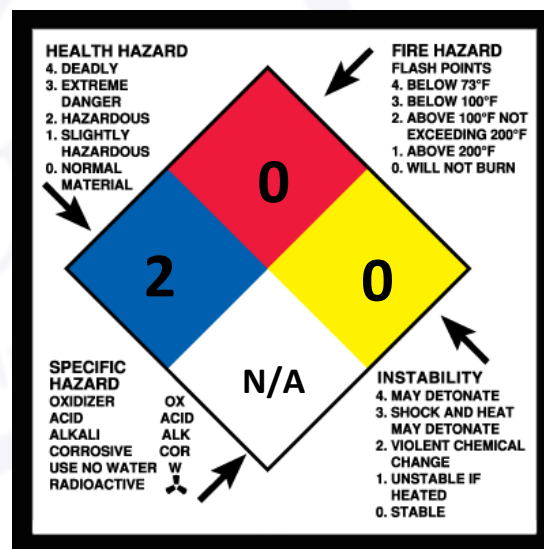
Potassium salts have a hypothetical risk of hyperkalemia which can cause cardiac arrhythmia. In addition to calcium levels, potassium and phosphate levels should be monitored. Also consider continuous EKG monitoring to detect hyperkalemia.

Sodium salts have a hypothetical risk of hypernatremia. In addition to calcium levels, sodium and phosphate levels should be monitored.

4-15-15 SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's - 10-17-16 - All sections reviewed for final GHS Classification.

8-20-18 - Reviewed, updated California Proposition 65 statement, this replaces all previous SDS's.

7-19-19 - REVIEWED UPDATED COMPLETELY - This replaces all previous SDS's - Updated TSCA inventory - product is on the active TSCA list.

**Date of last revision:**

7-19-2019

Reach Number EU

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.

Key Legend Information:

N/Ap:	Not Applicable	ND:	Not Determined
N/R:	Not Rated	NDA:	No Data Available
ACGI:	American Conference of Govr'ntal Industrial Hygienists	TLV:	Threshold Limit Value
OSHA:	Occupational Safety and Health Administration	TWA:	Time Weighted Average
PEL:	Permissible Exposure Limit	NTP:	National Toxicology Program
STEL:	Short Term Exposure Limit	TSCA:	Toxic Substance Control Act
IARC:	International Agency for Research on Cancer	CERCLA:	Comprehensive Response, Compensation and Liability Act
SARA Title III:	Superfund Amendments and Reauthorization Act	CWA:	Clean Water Act
CAA:	Clean Air Act		
RCRA:	Resource Conservation Recovery Act	IMO:	International Maritime Organization Shipping Info.
IATA:	International Air Transport Association Shipping Info.	WHMIS:	Workplace Hazardous Materials Information System
DSL:	Domestic Substance List (Canada)		

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