

Diammonium Phosphate

AMMONIUM PHOSPHATE DIBASIC

MSDS Number: DP015 ----- Effective Date: 12/1/04

1. Product Identification

Synonyms: Phosphoric acid, diammonium salt; ammonium phosphate; DAP; diammonium phosphate, diammonium salt CAS No.: 7783-28-0 Molecular Weight: 132.06 Chemical Formula: (NH4)2HPO4 Product Codes: 30-015-0000, 30-015-0055

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ammonium Phosphate Dibasic	7783-28-0	98 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

Vinquiry Inc. Saftey Ratings (Provided here for your convenience)

Health Rating: 1 - Slight Flammability Rating: 0 - None Reactivity Rating: 1 - Slight Contact Rating: 1 - Slight Lab Protective Equip: GOGGLES; LAB COAT Storage Color Code: Orange (General Storage)

Potential Health Effects

Inhalation:
Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.
Ingestion:
Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.
Skin Contact:
Causes irritation to skin. Symptoms include redness, itching, and pain.
Eye Contact:
Causes irritation, redness, and pain.
Chronic Exposure:
No information found.
Aggravation of Pre-existing Conditions:
No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

5. Fire Fighting Measures

Fire:
Not considered to be a fire hazard.
Explosion:
Not considered to be an explosion hazard.
Fire Extinguishing Media:
Use any means suitable for extinguishing surrounding fire.
Special Information:
Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (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.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White crystals. **Odor:** Odorless. Solubility: 1g/1.7ml water. **Specific Gravity:** 1.62 pH: ca. 8.0 % Volatiles by volume @ 21C (70F): 0 **Boiling Point:** Not applicable. **Melting Point:** 155C (311F) Decomposes. Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found. Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Gradually loses about 8% ammonia on exposure to air.

Hazardous Decomposition Products:
Burning may produce ammonia and oxides of phosphorus.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Sodium hypochlorite.
Conditions to Avoid:
Incompatibles.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

\Cancer Lists\				
	NTP Carcinogen			
Ingredient	Known	Anticipated	IARC Category	
Ammonium Phosphate Dibasic (7783-28-0)	No	No	None	

12. Ecological Information

Environmental Fate: No information found. **Environmental Toxicity:** No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

```
-----\Chemical Inventory Status - Part 1\-----
 Ingredient TSCA EC Japan Australia
 Ingredient
 Ammonium Phosphate Dibasic (7783-28-0)
                                 Yes Yes Yes
                                               Yes
 -----\Chemical Inventory Status - Part 2\-----
                                      --Canada--
 Ingredient
                             Korea DSL NDSL Phil.
 _____
 Ammonium Phosphate Dibasic (7783-28-0)
                                  Yes
                                      Yes No
                                               Yes
 -----\Federal, State & International Regulations - Part 1\------
                         -SARA 302- -----SARA 313-----
 Ingredient
                             RQ TPQ
                                      List Chemical Catq.
 _____
                                 -----
 Ammonium Phosphate Dibasic (7783-28-0)
                             No No
                                       No
                                              No
 ------\Federal, State & International Regulations - Part 2\------
                              -RCRA- -TSCA-
                          CERCLA 261.33 8(d)
 Ingredient
 ------
                                            _ _ _ _ _ _
                                  No
                                           No
 Ammonium Phosphate Dibasic (7783-28-0) No
Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No (Pure / Solid)
```

Australian Hazchem Code: None allocated. Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 2 Flammability: 0 Reactivity: 1 Label Hazard Warning: WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED. **Label Precautions:** Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Label First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In all cases, get medical attention. **Product Use:** Laboratory Reagent. **Revision Information:**

No Changes.

Disclaimer

Vinquiry Inc. provides this information in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to laboratory use of this material by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Vinquiry Inc. will not be responsible for damages resulting from use or reliance upon this information.