



# MATERIAL SAFETY DATA SHEET

## Diammonium Phosphate (DAP)

### 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	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>

Company Identification:	<b>Hazel Mercantile Limited</b>
Company Identification: (INDIA)	701, Embassy Centre , Nariman Point, Mumbai – 400 021
For information in the INDIA, call:	+91-22-2282 4444 (50 Lines)

### 2. Composition/Information on Ingredients

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

### 3. Hazards Identification

#### Emergency Overview

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

Health Rating:	1 - Slight
Flammability Rating:	0 - None
Reactivity Rating:	1 - Slight
Contact Rating:	1 - Slight
Lab Protective Equip:	GOGGLES; LAB COAT
Storage :	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.
<b>Ventilation System:</b> 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.
<b>Personal Respirators (NIOSH Approved):</b> 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, glycerin, 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. <b>WARNING:</b> Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
<b>Skin Protection:</b> Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Eye Protection:</b> 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

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

## 10. Stability and Reactivity

<b>Stability:</b>	Stable under ordinary conditions of use and storage. Gradually loses about 8% ammonia on exposure to air.
<b>Hazardous Decomposition Products:</b>	Burning may produce ammonia and oxides of phosphorus.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibilities:</b>	Sodium hypochlorite.
<b>Conditions to Avoid:</b>	Incompatibles.

## 11. Toxicological Information

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

## 12. Ecological Information

<b>Environmental Fate:</b>	No information found.
<b>Environmental Toxicity:</b>	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. Regulatory Information

<b>Chemical Inventory Status</b>	<b>Part 1</b>			
Ingredient	TSCA	EC	Japan	Australia
Ammonium Phosphate Dibasic (7783-28-0)	Yes	Yes	Yes	Yes

<b>Chemical Inventory Status</b>	<b>Part 2</b>			
Ingredient	Korea	DSL	NDSL	Phil.
Ammonium Phosphate Dibasic (7783-28-0)	Yes	Yes	Yes	Yes



## 16. Other Information

NFPA Ratings: Health:	2 Flammability: 0 Reactivity: 1
Label Hazard Warning:	<b>WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.</b>
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.

<b>MSDS Creation Date:</b>	September 27, 2007
<b>Revision #0 Date</b>	

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.*