

**YNC****Material Safety Data Sheet****Yunnan Newsift Compay Ltd.****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name : DIAMMONIUM PHOSPHATE ANHYDROUS

Chemical Family : Phosphate Salts

Chemical Name : Phosphoric Acid , Diammonium Salt

Synonyms : DAP; Ammonium Phosphate , Dibasic

Company Information :

YUNNAN NEWSWIFT COMPANY LTD

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS No.</u>	<u>% by weight</u>
Diammonium Phosphate Anhydrous	7783-28-0	96-99
Tricalcium Phosphate	1306-06-5	0-3

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Appearance and Odor : White crystals or powder with no odor

**WARNING STATEMENTS**

No significant hazards associated with this material

**POTENTIAL HEALTH EFFECTS**

Likely Routes of Exposure : Skin contact and inhalation

EYE CONTACT : No more than slightly irritating based on toxicity studies. The dry powder may cause foreign body irritation in some individuals.

SKIN CONTACT : No more than slightly toxic or slightly irritating based on toxicity studies. Prolonged contact with the dry powder may cause drying or chapping of the skin.

INHALATION : Inhalation of the dust may cause coughing and sneezing.

INGESTION : Not toxic if swallowed based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts ( less than a mouthful ) are swallowed.

Refer to section 11 for toxicological information.

**YNC     Material Safety Data Sheet**  
**Material : Diammonium Phosphate**

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#### **4. FIRST AID MEASURES**

IF IN EYES OR ON SKIN, immediate first aid is not likely to be required. However, this material can be removed with water. Remove material from eyes, skin and clothing. Wash heavily contaminated clothing before reuse.

IF INHALED, immediate first aid is not likely to be required. However, if symptoms occur, remove to fresh air.

IF SWALLOWED, immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.

#### **5. FIRE FIGHTING MEASURES**

FLASH POINT : Not combustible

HAZARDOUS PRODUCTS OF COMBUSTION: Not applicable

EXTINGUISHING MEDIA : Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS : None known

#### **6. ACCIDENTAL RELEASE MEASURES**

In case of spill, sweep, scoop or vacuum and remove. Flush residual spill area with water. Refer to Section 13 for disposal information and sections 14 and 15 for reportable quantity information.

#### **7. HANDLING AND STORAGE**

HANDLING:

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing.

STORAGE : Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pickup and caking and to maintain product performance.

#### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

EYE PROTECTION : This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

SKIN PROTECTION : Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY PROTECTION : Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R.1919.134

VENTILATION: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

**YNC Material Safety Data Sheet**  
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula :  $(\text{NH}_4)_2\text{HPO}_4$   
Appearance : White crystals or powder  
Odor : None  
PH : ( as a 1% solution @ 25 degrees c ) : 8.0 ( regular crystals with no TCP added )  
  
Solubility in Water : 43g/ 100g water @ 0 degrees C,  
58g/ 100g water @ 20 degrees C,  
86g/ 100g water @ 60 degrees C,  
101g/ 100g water @ 80 degrees C

Incompatible chemical : Alkalis and hypochlorite

NOTE : These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications of the product.

## 10 STABILITY AND REACTIVITY

STABILITY : Product is stable under normal conditions of storage and handling. Gradually loses  $\text{NH}_3$  on exposure to air; heat accelerates loss of ammonia.

MATERIALS TO AVOID : None known

HAZARDOUS DECOMPOSITION PRODUCTS: In the presences of fire, oxides of nitrogen could be formed.

HAZARDOUS POLYMERIZATION : Will not occur

## 11. TOXICOLOGICAL INFORMATION

The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration.

Single-dose ( acute ) toxicity studies indicate that this component is practically nontoxic orally ( rat ) and no more than slightly toxic following skin application ( rabbit ). It is slightly irritating to rabbit eyes and nonirritating to rabbit skin.

## 12. ECOLOGICAL INFORMATION

No definitive algal or biodegradation data was available for this material.

## 13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the resource. Consult your attorney or appropriate regulatory officials for information on such disposal.

## 14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

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US DOT

Not hazardous for transportation

**15. REGULATORY INFORMATION**

SARA Hazard Notification

Hazard Categories Under Title III Rules ( 40 CFR 370 ) : None

Section 302 Extremely Hazardous Substances : Not Applicable

Section 313 Toxic Chemical (s) : Not Applicable

CERCLA Reportable Quantity : Not applicable

**16. OTHER INFORMATION**

Product Use : Food ingredient, fertilizer ingredient, fire extinguisher compound