



United States

# Material Safety Data Sheet

Diammonium phosphate

## 1. Product and company identification

**Product name** : Diammonium phosphate  
**CAS number** : 7783-28-0

**Supplier** : Latitude Ltd.  
37 West Shore Rd.  
Huntington, NY 11743  
USA  
631-659-3374

**Validation date** : 04.10.2011  
**Print date** : 07.09.2012

**In case of emergency** : For Chemical Emergency ONLY, call CHEMTREC at 1-800-424-9300  
International Emergency Telephone number: +1-703-527-3887 (call collect)

**Product type** : CRYSTALS

## 2. Hazards identification

### Emergency overview

**Physical state** : solid [CRYSTALS]

**Color** : White.

**Odor** : Ammonia.

**Hazard statements** : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin** : No known significant effects or critical hazards.  
**Eyes** : No known significant effects or critical hazards.

**Potential chronic health effects**

<b>Chronic effects</b>	:	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	No known significant effects or critical hazards.
<b>Mutagenicity</b>	:	No known significant effects or critical hazards.
<b>Teratogenicity</b>	:	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	No known significant effects or critical hazards.
<b>Target organs</b>	:	Not available.

**Over-exposure signs/symptoms**

<b>Inhalation</b>	:	Adverse symptoms may include the following: coughing respiratory tract irritation
<b>Ingestion</b>	:	Adverse symptoms may include the following: stomach pains
<b>Skin</b>	:	Adverse symptoms may include the following: redness
<b>Eyes</b>	:	Adverse symptoms may include the following: redness pain or irritation
<b>Medical conditions aggravated by over-exposure</b>	:	None known.

See toxicological information (section 11)

### 3. Composition/information on ingredients

\* The specific chemical identity and/or concentration is being withheld because it is trade secret

### 4. First aid measures

<b>Eye contact</b>	:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
<b>Skin contact</b>	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
<b>Inhalation</b>	:	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
<b>Ingestion</b>	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	:	No action shall be taken involving any personal risk or without suitable training.

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

**Flammability of the product** : No specific fire or explosion hazard.

### Extinguishing media

**Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Not suitable** : None known.

**Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
nitrogen oxides  
phosphorus oxides

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Special remarks on fire hazards** : Non-flammable.

**Special remarks on explosion hazards** : Not applicable.

## 6. Accidental release measures

**Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). May be harmful to the environment if released in large quantities.

### Methods for cleaning up

**Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

**Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Storage** : Store in accordance with local regulations. Store in original container

protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Dust-protection mask
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

- Physical state** : solid [CRYSTALS]
- Color** : White.
- Odor** : Ammonia.
- Molecular formula** :  $(\text{NH}_4)_2\text{HPO}_4$
- pH** : 7 - 8
- Melting/freezing point** : 155 °C (311.00 °F)

Relative density : 1,610  
 SADT : Not available.  
 Solubility : Soluble in the following materials: water

### 10. Stability and reactivity

Chemical stability : The product is stable.  
 Conditions to avoid : No specific data.  
 Incompatible materials : Reactive or incompatible with the following materials:  
 water  
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

### 11. Toxicological information

#### Acute toxicity

Conclusion/Summary :

#### Chronic toxicity

Conclusion/Summary :

#### Irritation/Corrosion

Conclusion/Summary

Skin : Non-irritating to the skin.  
 Eyes : Non-irritating to the eyes.  
 Respiratory :

#### Sensitizer

Conclusion/Summary

Skin :  
 Respiratory :

#### Carcinogenicity

Conclusion/Summary :

#### Mutagenicity

Conclusion/Summary : No known significant effects or critical hazards.

#### Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

#### Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

### 12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

#### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Diammonium phosphate			

	Acute EC50 0,3 mg/l	Fish - Labeo boga	-
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Conclusion/Summary :

**Persistence/degradability**

Conclusion/Summary :

Octanol/water partition coefficient :

Other adverse effects : No known significant effects or critical hazards.

**13. Disposal considerations**

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: **HANDLING AND STORAGE** and Section 8: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees.

**14. Transport information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	-	Not applicable.	Not applicable. (-)	-	
TDG Classification	-	Not applicable.	Not applicable. (-)	-	
Mexico Classification	-	Not applicable.	Not applicable. (-)	-	
ADR/RID Class	-	Not applicable.	Not applicable. (-)	-	
<b>Additional information: ADR/RID</b>					
<b>Tunnel code</b> : -					
IMDG Class	-	Not applicable.	Not applicable. (-)	-	
IATA-DGR Class	-	Not applicable.	Not applicable. (-)	-	

PG\* : Packing group

## 15.Regulatory information

<b>United States</b>	:	Not regulated.
<b>HCS Classification</b>	:	
<b>U.S. Federal regulations</b>	:	<b>United States - TSCA 12(b) - Chemical export notification:</b> ..None of the components are listed. <b>United States - TSCA 4(a) - Final Test Rules:</b> ..Not listed <b>United States - TSCA 4(a) - ITC Priority list:</b> ..Not listed <b>United States - TSCA 4(a) - Proposed test rules:</b> ..Not listed <b>United States - TSCA 4(f) - Priority risk review:</b> ..Not listed <b>United States - TSCA 5(a)2 - Final significant new use rules:</b> ..Not listed <b>United States - TSCA 5(a)2 - Proposed significant new use rules:</b> ..Not listed <b>United States - TSCA 5(e) - Substances consent order:</b> ..Not listed <b>United States - TSCA 6 - Final risk management:</b> ..Not listed <b>United States - TSCA 6 - Proposed risk management:</b> ..Not listed <b>United States - TSCA 8(a) - Comprehensive assessment report (CAIR):</b> ..Not listed <b>United States - TSCA 8(a) - Chemical risk rules:</b> ..Not listed <b>United States - TSCA 8(a) - Dioxin/Furane precursor:</b> ..Not listed <b>United States - TSCA 8(a) - Inventory update rule (IUR):</b> ..Partial exemption <b>United States - TSCA 8(a) - Preliminary assessment report (PAIR):</b> ..Not listed <b>United States - TSCA 8(c) - Significant adverse reaction (SAR):</b> ..Not listed <b>United States - TSCA 8(d) - Health and safety studies:</b> ..Not listed <b>SARA 302/304/311/312 extremely hazardous substances:</b> No products were found. <b>SARA 302/304 emergency planning and notification:</b> No products were found. <b>SARA 302/304/311/312 hazardous chemicals:</b> No products were found. <b>SARA 311/312 MSDS distribution - chemical inventory - hazard identification:</b> Phosphoric acid, ammonium salt (1:2): Acu <b>United States - EPA Clean water act (CWA) section 307 - Priority pollutants:</b> Not listed <b>United States - EPA Clean water act (CWA) section 311 - Hazardous substances:</b> Not listed <b>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:</b> Not listed <b>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:</b> Not listed
<b>Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)</b>	:	Not listed
<b>Clean Air Act Section 602 Class I Substances</b>	:	Not listed
<b>Clean Air Act Section 602 Class II Substances</b>	:	Not listed
<b>DEA List I Chemicals (Precursor Chemicals)</b>	:	Not listed
<b>DEA List II Chemicals (Essential Chemicals)</b>	:	Not listed

**State regulations**

Massachusetts : None of the components are listed.  
 New York : None of the components are listed.  
 New Jersey : None of the components are listed.  
 Pennsylvania : None of the components are listed.

**California Prop. 65**

Not available.

United States inventory : Listed  
 (TSCA 8b)

Canada inventory : Listed

**International regulations**

International lists : Philippines inventory (PICCS): Listed  
 New Zealand Inventory of Chemicals (NZIoC): Listed  
 Korea inventory: Listed  
 Japan inventory: Listed  
 China inventory (IECSC): Listed  
 Australia inventory (AICS): Listed

Chemical Weapons : Not listed

**Convention List****Schedule I Chemicals**

Chemical Weapons : Not listed

**Convention List****Schedule II Chemicals**

Chemical Weapons : Not listed

**Convention List****Schedule III Chemicals****16. Other information**

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

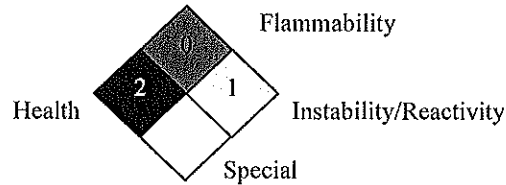
**Hazardous Material Information System (U.S.A.) :**

Health	2
Flammability	0
Physical hazards	1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.



National Fire Protection Association (U.S.A.):



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