



## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

<b>Product Name</b>	. <b>Diammonium Phosphate</b>
<b>Synonyms</b>	. Ammonium Phosphate, Dibasic; Ammonium Phosphate, Secondary; DAP
<b>CAS Number</b>	. 7783-28-0
<b>SDS Number/Grade</b>	. 31
<b>EC Number</b>	. 231-987-8
<b>REACH Registration Number</b>	. 01-2119490974-22-0057
<b>Product Description</b>	. White powder solid with ammonia-like odor.
<b>Molecular Formula</b>	. $(\text{NH}_4)_2\text{HPO}_4$
<b>Molecular Weight</b>	. 132.06

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Relevant identified use(s)</b>	. Nutrient in manufacture of yeast; ingredient in compound bread improvers. Flame retardant. Agriculture - Ingredient in specialty all-soluble dry fertilizers. Building Materials - Flame-proofing of wood. Paint - Ingredient in flame-proofing of specialty paper; prevention of afterglow in matches. Pulp and Paper - Flame-proofing of specialty paper; prevention of afterglow in materials. Textile - Flame-proofing of fabrics and cotton batting. Nutrient feed for biological treatment plants.
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#### 1.3 Details of the supplier of the safety data sheet

<b>Manufacturer</b>	. Global Chemical Resources 1925 Nebraska Avenue Toledo, OH 43607 United States
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Telephone (Technical) . 419-242-1004

#### 1.4 Emergency telephone number

<b>Manufacturer</b>	. 800-424-9300 - Chemtrec - within USA and Canada
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### Section 2: Hazards Identification

## EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]  
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

### 2.1 Classification of the substance or mixture

- CLP . Not classified
- DSD/DPD . Not classified

### 2.2 Label Elements

- CLP  
**Hazard statements** . No label element(s) required.
- DSD/DPD  
**Risk phrases** . No label element(s) required.

### 2.3 Other Hazards

- CLP . According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.
- DSD/DPD . This product is not considered dangerous under the European Directive 67/548/EEC

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## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

- OSHA HCS 2012 . Not classified

### 2.2 Label elements

- OSHA HCS 2012  
**Hazard statements** . No label element(s) required.

### 2.3 Other hazards

- OSHA HCS2012 . This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

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## Canada

According to WHMIS

### 2.1 Classification of the substance or mixture

- WHMIS . Not classified

### 2.2 Label elements

- WHMIS . No label element(s) required.

### 2.3 Other hazards

- WHMIS . In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS)

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## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Phosphoric acid, ammonium salt (1:2)	CAS:7783-28-0 EC Number:231-	100%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA

### 3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

#### Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

#### Eye

- Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. If eye irritation persists: Get medical advice/attention.

#### Ingestion

- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Rinse mouth. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- 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 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** . Not combustible. Use extinguishing media suitable for surrounding fire.

**Unsuitable Extinguishing Media** . None known.

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** . Non-combustible.

**Hazardous Combustion Products** . Ammonia  
Oxides of nitrogen, oxides of phosphorus.

### 5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. Move containers from fire area if you can do it without risk.

LARGE FIRES: Dike fire-control water for later disposal.  
 LARGE FIRES: Do not scatter spilled material with high pressure water streams.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not touch or walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.
- Emergency Procedures**
- Ventilate closed spaces before entering. Keep unauthorized personnel away.

### 6.2 Environmental precautions

- 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.

### 6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Sweep or vacuum up and place in an appropriate closed container. Avoid generating dust. Clean up residual material by washing area with water and detergent. Collect washings for disposal.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

- Handling**
- Keep containers closed when not in use. Avoid breathing dust. Avoid direct or prolonged contact with skin and eyes. Do not ingest. Do not use in areas without adequate ventilation. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

### 7.2 Conditions for safe storage, including any incompatibilities

- Storage**
- Store in a cool/low-temperature, well-ventilated, dry place. Store in a tightly closed container. Product is hygroscopic and tends to cake on storage.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

- Exposure Limits/Guidelines**
- No exposure limits were found for this product or any of its ingredients.

### 8.2 Exposure controls

- Engineering Measures/Controls**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

#### Personal Protective Equipment

##### Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

##### Eye/Face

- Wear safety glasses.

##### Skin/Body

- Wear appropriate gloves.

**Environmental Exposure Controls** . Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White powder solid with ammonia-like odor.
Color	White	Odor	Ammonia-like
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	8
Specific Gravity/Relative Density	Data lacking	Water Solubility	Soluble 41 %
Viscosity	Data lacking	Explosive Properties	Not relevant.
Oxidizing Properties:	Not relevant.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Not relevant.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

### 9.2 Other Information

. No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

. No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

. Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

. Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

. Dusting conditions, extreme heat, extreme humidity.

### 10.5 Incompatible materials

. Strong bases, strong oxidizing agents. Sodium hypochlorite.

### 10.6 Hazardous decomposition products

. Ammonia Oxides of nitrogen. Phosphoric acid. Oxides of phosphorus.

## Section 11 - Toxicological Information

## 11.1 Information on toxicological effects

Diammonium Phosphate 7783-28-0								
Test Type	Dosage	Route	Species	Duration	Results	Test Class	Target Organs	Comments
Irritation		Skin	Rabbit	NDA	NDA	Mild irritation	NDA	NDA
Acute Toxicity	> 1000 mg/kg	Ingestion/Oral	Rat	NDA	LD50	NDA	NDA	NDA
GHS Properties				Classification				
<b>Acute toxicity</b>				EU/CLP • Data lacking OSHA HCS 2012 • Acute Toxicity - Data lacking				
<b>Aspiration Hazard</b>				EU/CLP • Data lacking OSHA HCS 2012 • Data lacking				
<b>Carcinogenicity</b>				EU/CLP • Data lacking OSHA HCS 2012 • Data lacking				
<b>Germ Cell Mutagenicity</b>				EU/CLP • Data lacking OSHA HCS 2012 • Data lacking				
<b>Skin corrosion/Irritation</b>				EU/CLP • Data lacking OSHA HCS 2012 • Inconclusive data				
<b>Skin sensitization</b>				EU/CLP • Data lacking OSHA HCS 2012 • Data lacking				
<b>STOT-RE</b>				EU/CLP • Data lacking OSHA HCS 2012 • Data lacking				
<b>STOT-SE</b>				EU/CLP • Data lacking OSHA HCS 2012 • Data lacking				
<b>Toxicity for Reproduction</b>				EU/CLP • Data lacking OSHA HCS 2012 • Data lacking				
<b>Respiratory sensitization</b>				EU/CLP • Data lacking OSHA HCS 2012 • Data lacking				
<b>Serious eye damage/Irritation</b>				EU/CLP • Data lacking OSHA HCS 2012 • Inconclusive data				

**Route(s) of entry/exposure** . Inhalation, Skin, Eye, Ingestion

### Potential Health Effects

#### Inhalation

- Acute (Immediate)** . May cause respiratory irritation.
- Chronic (Delayed)** . No data available.

#### Skin

- Acute (Immediate)** . May cause irritation.
- Chronic (Delayed)** . No data available.

#### Eye

- Acute (Immediate)** . May cause irritation.
- Chronic (Delayed)** . No data available.

#### Ingestion

- Acute (Immediate)** . Low acute oral toxicity. Ingestion of large quantities may cause abdominal pain, abdominal cramps, nausea, vomiting, diarrhea.
- Chronic (Delayed)** . No data available.

**Carcinogenic Effects**

- . This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

**Key to abbreviations**

LD = Lethal Dose

**Section 12 - Ecological Information****12.1 Toxicity**

Diammonium Phosphate			7783-28-0		
Dosage	Species	Duration	Results	Exposure Conditions	Comments
= 155 mg/L	Fish: Pimephales promelas	96 Hour(s)	LC50	NDA	NDA

**12.2 Persistence and degradability**

- . No data found for product.

**12.3 Bioaccumulative potential**

- . No data found for product.

**12.4 Mobility in Soil**

- . No data found for product.

**12.5 Results of PBT and vPvB assessment**

- . PBT and vPvB assessment has not been carried out.

**12.6 Other adverse effects****Ecological Fate**

- . No data found for product.

**Section 13 - Disposal Considerations****13.1 Waste treatment methods****Product waste**

- . Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- . Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

**14.6 Special precautions for user**

- . None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- . Not relevant.

## Section 15 - Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications . Acute

Inventory						
Component	CAS	CanadaDSL	Canada NDSL	China	EUEINECS	EU ELNICS
Phosphoric acid, ammonium salt (1:2)	7783-28-0	Yes	No	Yes	Yes	No

  

Inventory (Con't.)				
Component	CAS	New Zealand	Philippines PICCS	TSCA
Phosphoric acid, ammonium salt (1:2)	7783-28-0	Yes	Yes	Yes

### Canada

#### Labor

##### Canada - WHMIS - Classifications of Substances

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

##### Canada - WHMIS - Ingredient Disclosure List

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

#### Environment

##### Canada - 2004 NPRI (National Pollutant Release Inventory)

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

##### Canada - 2005 NPRI (National Pollutant Release Inventory)

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

##### Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

##### Canada - CEPA - Priority Substances List

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

##### Canada - DWQ (Drinking Water Quality) - IMACs

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

#### Other

##### Canada - Accelerated Reduction/Elimination of Toxics (ARET)

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

### Canada New Brunswick

#### Environment

##### Canada - New Brunswick - Ozone Depleting Substances - Schedule A

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed

##### Canada - New Brunswick - Ozone Depleting Substances - Schedule B

• Phosphoric acid, ammonium salt (1:2) 7783-28-0 Not Listed



## China

### Other

#### China - Classification and Labeling of Dangerous Chemical Substances Commonly Used

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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## Germany

### Environment

#### Germany - TA Luft - Types and Classes

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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#### Germany - Water Classification (VwVwS) - Annex 1

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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#### Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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#### Germany - Water Classification (VwVwS) - Annex 3

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	ID Number 7150, hazard class 1 - low hazard to waters
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## Philippines

### Other

#### Philippines - Priority Chemical List

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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## Singapore

### Other

#### Singapore - Corrosive and Explosive Substances - Corrosive Substances

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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#### U.S. - OSHA - Specifically Regulated Chemicals

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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#### U.S. - CAA (Clean Air Act) - Class II Ozone Depletors

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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#### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
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#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed

## United States -California

### Environment

<b>U.S. - California - Proposition 65 - Carcinogens List</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
<b>U.S. - California - Proposition 65 - Developmental Toxicity</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
<b>U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
<b>U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity -Female</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity -Male</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed

## Vietnam

### Environment

<b>Vietnam - Industrial Wastewater Discharge Standards - Specific Permitted Water Bodies</b>		
• Phosphoric acid, ammonium salt (1:2)	7783-28-0	Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

<b>Last Revision Date</b>	• 5-1-2015
<b>Preparation Date</b>	• 5-1-2015
<b>Disclaimer/Statement of Liability</b>	• The information herein is given in good faith but no warranty, expressed or implied, is made.

### Key to abbreviations

NDA = No Data Available