



# MSDS by MSDS Number

/TD>

Our database contains over 10,000 MSDS representing over 80,000 unique product codes. Your search will be more successful if you fill in as much information as possible.

Univar USA  
6100 Carillon Point  
Kirkland WA 98033  
425-889-3400

For Emergency Assistance involving chemicals call – CHEMTREC (800) 424-9300

---

## MSDS Number:P13175VS MSDS Version:001

001 07/16/92 DIAMMONIUM PHOSPHATE

\*\*\*\*\*  
PRODUCT IDENTIFICATION  
\*\*\*\*\*

PRODUCT NAME: DIAMMONIUM PHOSPHATE

MSDS #: P13175VS

DATE ISSUED: 04/04/91

\*\*\*\*\*  
MANUFACTURER'S MSDS  
\*\*\*\*\*

### MATERIAL SAFETY DATA SHEET

RHONE-POULENC BASIC CHEMICALS CO.  
1 Corporate Drive  
Box 881  
Shelton, CT. 06484

24-HOUR EMERGENCY TELEPHONE  
CHEMTREC 1-800-424-9300

Effective Date: APR 03, 1991  
Supersedes: MAR 07, 1991

Date Printed: APR 4, 1991

PRODUCT NAME: DIAMMONIUM PHOSPHATE

\*\*\*\*\*  
I. IDENTIFICATION  
\*\*\*\*\*

CHEMICAL NAME OF PRIMARY COMPONENT(S): Diammonium phosphate

FORMULA: (NH4)2HPO4 FORMULA WEIGHT: 132.06

SYNONYMS: ammonium phosphate, secondary; ammonium phosphate, dibasic;  
diammonium hydrogen phosphate; DAP

CAS # & NAME: 7783-28-0 Phosphoric acid, diammonium salt

\*\*\*\*\*  
II. INGREDIENTS/SUMMARY OF HAZARDS  
\*\*\*\*\*

INGREDIENT(S)	CAS Number	OSHA Hazardous (H)/ Non-Hazardous (NH)	Percent
(1) Diammonium phosphate	7783-28-0	H	100

### WARNING STATEMENTS:

CAUTION! MAY CAUSE SKIN AND EYE IRRITATION

Avoid prolonged contact with skin and eyes. Wash thoroughly after handling.

See Section VI for complete Health Hazard Data.

	KEY = NFPA/HMIS	NFPA	HMIS
NATIONAL FIRE PROTECTION ASSOCIATION RATING	4=Extreme/ Severe	1	Health 1
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	3=High/ Serious 2=Moderate 1=Slight 0=Minimum	0	Fire 0  Reactivity 0
SARA TITLE III HAZARD CLASSIFICATION	Immediate (acute) Health Delayed (chronic) Health Fire Sudden Release of Pressure Reactive		YES NO NO NO NO

\*\*\*\*\*  
 III. PHYSICAL DATA  
 \*\*\*\*\*

SPECIFIC GRAVITY: 1.619

BULK DENSITY: 50 lbs/cu ft, granular  
38 lbs/cu ft, powder

DECOMPOSITION POINT, Degrees C (F): 155 (311)

pH, 1% aqueous solution: 8.0

SOLUBILITY IN WATER @ 25 Degrees C: 41 g/100 g water

APPEARANCE AND ODOR: White granular or powdered solid; faint ammonia odor

For additional technical information, call 1-203-925-3300.

\*\*\*\*\*  
 IV. FIRE AND EXPLOSION HAZARD DATA  
 \*\*\*\*\*

FLASH POINT Degrees C (F): Noncombustible

FLAMMABLE LIMITS IN AIR: Not applicable

AUTOIGNITION TEMPERATURE Degrees C (F): Not applicable

EXTINGUISHING MEDIA: Not combustible. Use appropriate extinguishing media for material that is supplying fuel.

SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing and use self contained breathing apparatus. Dike area to prevent runoff and contamination of water sources.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
Thermal decomposition products may be hazardous. These may include irritating ammonia fumes.

\*\*\*\*\*  
 V. REACTIVITY DATA  
 \*\*\*\*\*

STABILITY:  
Stable at ambient temperatures and atmospheric pressure.

CONDITIONS TO AVOID:  
Hygroscopic, protect from moisture.

MATERIALS TO AVOID:  
Reacts with alkali to liberate ammonia.  
Ammonium salts react with sodium hypochlorite to form nitrogen trichloride which decomposes explosively.  
Aqueous solutions are mildly corrosive to cast iron and aluminum.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposition products may be hazardous. These may include ammonia and polyphosphoric acid. Under fire conditions, may also include phosphorus oxides and nitrogen oxides.

HAZARDOUS POLYMERIZATION:  
Polymerizes upon heating, liberating ammonia.

\*\*\*\*\*  
VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES  
\*\*\*\*\*

EXPOSURE LIMITS:  
None established for this product, however apply exposure limits for  
Particulates 10 mg/m<sup>3</sup> TWA for total dust, ACGIH TLV  
(not otherwise 15 mg/m<sup>3</sup> TWA for total dust, OSHA PEL  
regulated) 5 mg/m<sup>3</sup> TWA for respirable dust, OSHA PEL

TOXICOLOGY DATA:  
Oral LD50 (rats): >1000 mg/kg body weight (1)  
Dermal LD50 (rabbits): No information available  
Inhalation LC50 (rats): No information available  
Skin Effects (rabbits): Mild irritant (1)  
Eye Effects (rabbits): No information available

CARCINOGENICITY:  
This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as a probable human carcinogen.

EFFECTS OF SINGLE OVEREXPOSURE:

Swallowing:  
Ingestion of large quantities may cause symptoms of non-specific irritation of the gastrointestinal tract, nausea, vomiting, cramps, and diarrhea.

Skin Absorption:  
Significant absorption through intact skin is not anticipated.

Inhalation:  
May be irritating to the respiratory tract.

Skin Contact:  
May cause skin irritation.

Eye Contact:  
May cause eye irritation.

EFFECTS OF REPEATED OVEREXPOSURE:  
Prolonged or repeated contact with concentrated aqueous solutions may produce irritation of the skin and eyes.

EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:  
Skin irritation may be aggravated in persons with existing skin lesions. Breathing of dust may aggravate acute or chronic asthma and other chronic pulmonary disease.

EMERGENCY AND FIRST AID PROCEDURES:

Swallowing:  
If patient is conscious and alert, give 2-3 glasses of water or milk to drink. If available, give one tablespoon of Syrup of Ipecac to induce vomiting. If vomiting has not occurred in 20 minutes, the same dose of syrup of Ipecac may be repeated one additional time. Alternatively, induce vomiting by touching back of throat with finger. Do not make an unconscious person vomit. GET MEDICAL ATTENTION.

Skin:  
Flush all affected areas with plenty of water for several minutes. Remove and clean any contaminated clothing and shoes. Seek medical attention if skin irritation occurs.

Inhalation:  
Serious problems are not anticipated unless there is significant overexposure to dusty conditions.

Remove victim to fresh air. If not breathing, administer cardiopulmonary resuscitation or artificial respiration. If breathing is difficult, administer oxygen. GET MEDICAL ATTENTION if respiratory irritation occurs or if breathing becomes difficult.

Eyes:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. GET MEDICAL ATTENTION if irritation occurs.

NOTES TO PHYSICIAN:

Treat symptomatically. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Ingestion of large quantities of phosphates may cause hypocalcemia requiring the administration of calcium gluconate. R

\*\*\*\*\*  
VII. PRECAUTIONS FOR SAFE HANDLING AND USE  
\*\*\*\*\*

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
All personnel involved in cleanup must wear protective clothing.

No emergency results from spillage, however, spills should be cleaned up promptly using the following procedures:

Sweep or vacuum spilled material, being careful not to create dust. Place sweepings into an appropriate waste container. DO NOT RETURN MATERIAL TO ITS ORIGINAL CONTAINER. Seal container for disposal. Flush area with detergent and water to remove any residual material.

WASTE DISPOSAL METHOD:  
Dispose of in accordance with local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
This material is hygroscopic and tends to cake on storage. When not in use, containers should be kept closed at all times. Store in a cool dry well ventilated area. Exercise due caution to prevent damage to the container. Recommended materials of construction of process equipment, storage, and shipping containers are mild steel, fiberglass, polypropylene, and polyvinyl chloride.

\*\*\*\*\*  
VIII. SPECIAL PROTECTION INFORMATION  
\*\*\*\*\*

PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:  
- Manufacture or formulation of this product  
- Repair and maintenance of contaminated equipment  
- Clean-up of leaks and spills

RESPIRATORY PROTECTION: If use conditions generate airborne dust, handle material in an open or well ventilated area. Where adequate ventilation is not available, use NIOSH/MSHA approved respirator for dust. Use positive pressure self-contained breathing apparatus for emergency conditions where a higher level of protection is required.

VENTILATION: Local exhaust ventilation, when necessary.

PROTECTIVE CLOTHING: Work clothes, chemical-resistant gloves

EYE PROTECTION: Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Maintain a sink, safety shower, eyewash fountain in work area. Have oxygen readily available.

\*\*\*\*\*  
IX. REGULATORY STATUS  
\*\*\*\*\*

Product is a food grade material as determined by the FOOD CHEMICALS CODEX

TSCA Inventory:	Yes
Transportation Status: DOT	Not regulated
Reportable Quantity (RQ) under 49 CFR 172.101 Appendix:	Not listed
SARA Title III	
Section 302 Extremely Hazardous Substance List:	Not listed
Section 313 Toxic Chemicals:	Not listed
Reportable Quantity (RQ), under U.S. EPA CERCLA:	Not listed
Federal RCRA Hazardous Waste:	Not listed

State's Right-to-Know Laws:  
California Proposition 65: Not listed  
Connecticut: Not listed  
Florida: Not listed  
Illinois: Not listed  
Louisiana: Not listed  
Massachusetts: Not listed  
New Jersey: Not listed  
New York: Not listed  
Pennsylvania: Not listed  
Rhode Island: Not listed

\*\*\*\*\*  
X. REFERENCES  
\*\*\*\*\*

(1) Unpublished toxicity study sponsored by Rhone-Poulenc, T-4054.

The information herein is given in good faith but no warranty, expressed or implied, is made.

R in the right margin indicates a revision.

RHONE-POULENC

For Additional Information:  
Contact: MSDS Coordinator – Univar USA  
During business hours, Pacific Time – (425) 889-3400

NOTICE

Univar USA, expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Univar USA Sales Office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar USA makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar USA's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

END OF MSDS

[Home](#) | [eBusiness](#) | [Products](#) | [What's New](#) | [Environmental](#) | [About Us](#) | [Contact Us](#)  
[e-mail webmaster](#) | By using this Web site, you agree to be bound by our usage policies.  
To learn more see [Copyright© 1997 – 2003](#), Univar USA

for (i=0;i 0) { document.images[i].border = 0; document.images[i].width = 0; document.images[i].height = 0; break; } }