

## **SAFETY DATA SHEET**

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION		
Trade Name:	DAP - Diammonium Phosphate		
Chemical Name:	Dibasic Ammonium Phosphate		
CAS Number:	7783-28-0		
Chemical Family:	Ammonium Phosphates—Inorganic Salt		
Synonyms:	Ammonium Phosphate Dibasic Secondary Ammonium Phosphate Diammonium Hydrogen Phosphate Fertilizer Grade Ammonium Phosphate DAP 18 - 46 - 0		
Primary Use:	Crop nutrient		
Company Information:	The Mosaic Company 101 East Kennedy Blvd, Ste 2500 Tampa, FL 33602 www.mosaicco.com (800) 918-8270 or (813) 775-4200 8 AM to 5 PM Eastern Time USA		
Emergency Telephone:	EMERGENCY OVERVIEW  24 Hour Emergency Telephone Number:  For Chemical Emergencies:		

SECTION 2	HAZARD IDENTIFICATION			
GHS Classification:	Acute Toxicity Oral Ca Skin Irritant Category Eye Irritant Category 3 STOT SE Category 3	2	Hazard Statement H303 Hazard Statement H315 Hazard Statement H320 Hazard Statement H335	
•	Signal Word: WARNING Hazard Statement(s) H303: May be harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation H335: May cause respiratory irritation			
Label Elements:	Label Elements:			
Prevention:	P264: Wash hands thoroughly after handling. P280: Wear protective gloves P261: Avoid breathing dust P271: Use only outdoors or in a well-ventilated area.			
	P302+ P352 IF ON SKIN: Wash with plenty of water. P321 Specific Treatment, see supplemental first aid information.			
	P332+ P313	If skin irritation occurs: Get medical advice/attention.		
Response:	P362+ P364	Take off contaminated clothing and wash it before reused.		
	P305+P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	P337+ P313	If eye irritation persists: Get medical advice/attention.		

Status: Revised Section(s) Revised: 1

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	P304+ P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	P312	Call a POISON CENTER.	
Storage:	Not applicable	Not applicable	
Disposal:	P501	Disposal of content/containers to be in accordance with local/regional/national regulations.	

SECTION 3	COMPOSITION INFORMATION ON INGREDIENTS			
Formula:	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>			
Composition:	Dibasic Ammonium Phosphate Ammonium Sulfate	CAS 7783-28-0 CAS 7783-20-2	70-90% 5.5-7.5%	Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE 3 (Lungs, Inhalation)

SECTION 4	FIRST AID MEASURES		
	Eyes:	Move victim away from exposure and into fresh air. Flush eyes with plenty of clean water for at least 15 minutes. If symptoms persist, seek medical attention.	
First Aid Procedures:	Skin:	Wash contaminated area thoroughly with mild soap and water. If chemical or solution soaks through clothing, remove clothing and wash contaminated skin. If irritation develops and persists after washing, seek medical attention.	
	Inhaled:	If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.	
	Ingestion:	If large amounts are swallowed, seek emergency medical attention. If possible, do not leave victim unattended and observe closely for adequacy of breathing.	
Note to Physician:	If person has been exposed to concentrated decomposition products, treat symptomatically and watch for delayed symptoms of pulmonary edema.		

SECTION 5	FIRE FIGHTING MEASURES		
Extinguishing Media:	Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff. Prevent firefighter water from entering the environment. Small fires: Water spray, foam, dry chemical or CO <sub>2</sub> Large fires: Water spray, fog or foam		
Protection of Firefighters:	Positive pressure, self-contained breathing apparatus is required for all firefight		

SECTION 6	ACCIDENTAL RELEASE MEASURES		
Response Techniques:	Stay upwind and away from spill (dust hazard). Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Notify appropriate federal, state, and local agencies as may be required (see Section 15). Minimize dust generation. Sweep up and package appropriately for disposal.		

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SECTION 7	HANDLING AND STORAGE		
Handling:	The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 8). Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing or shoes. Use good personal hygiene practices.		
Storage:	Use and store this material in dry, well-ventilated areas. Store only in approved containers. Keep container(s) tightly closed. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Mater may absorb moisture from the air.		

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION			
Engineering Controls:	Use process enclosure, general dilution ventilation or local exhaust systems where necessary to maintain airborne dust concentration below the OSHA standards or in accordance with applicable regulations.			
			ion to safeguard against potential eye njury is recommended.	
	Skin:	The use of cloth or leather work gloves is advised to prevent skin contact, possible irritation and absorption.		
Personal Protective Equipment (PPE):	Respiratory:	A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator.  A source of clean water should be available in the work area for flushing eyes and skin.		
	Other:			
General Hygiene Considerations:	Wash thoroughly after handling Use adequate ventilation			
	OSHA Permissible (PEL):	e Exposure Limits	Particulates Not Otherwise Regulated: 5 mg/m³ TWA (respirable); 15 mg/m³ TWA (total) Ammonia: 50 ppm (35 mg/m³) TWA	
Exposure Guidelines:	ACGIH Threshold Limit Value (TLV):		Particulates Not Otherwise Specified: 3 mg/m³ TWA (respirable); 10 mg/m³ TWA (inhalable) Ammonia: 25 ppm (18 mg/m³) TWA; 35 ppm (27 mg/m³) STEL	

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SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES			
Note: Unless otherwise stated, values in this section are determined at 20°C (68°F) and 760 mm Hg (1 atm).				
Appearance:	Gray, tan, brown or black granules	Vapor Pressure (mm Hg):	Not applicable	
Odor:	Slight ammonia odor	Vapor Density (air=1):	Not applicable	
Odor Threshold:	No data available	Specific Gravity or Relative Density:	Not applicable	
Physical state:	Solid	Bulk Density:	Loose 56 - 61 lbs/ft <sup>3</sup> (895 - 960 kg/m <sup>3</sup> )	
pH:	7.0 - 8.0 in a 1% solution	Solubility in Water:	80% - 95%	
Melting Point/ Freezing Point:	Not applicable	Partition coefficient:	No data available	
Boiling Point:	Not applicable	Auto-Ignition Temperature:	Not applicable	
Flash Point:	Not applicable	Decomposition Temperature:	310°F (155°C)	
Evaporation Rate:	No data available	Viscosity:	No data available	
Flammability:	Not applicable	Volatility:	Not applicable	
Upper/lower Flammability or explosive limits	Not applicable			

SECTION 10	STABILITY AND REACTIVITY		
Chemical Stability:	Stable under normal conditions of storage and handling. Decomposes at 310°F (155°C).		
Conditions to Avoid:	Extreme temperatures		
Incompatible Materials:	Avoid contact with alkaline materials		
Hazardous Decomposition Products:	If heated to the point of decomposition, oxides of phosphorus, oxides of nitrogen and ammonia (NH3) may be released.		
Corrosiveness:	May be corrosive to iron and mild steels, aluminum, zinc and copper		
Hazardous Polymerization:	Will not occur		

SECTION 11	TOXICOLOGICAL INFORMATION			
Substance:	Diammonium Phosphate			
Acute Oral Toxicity:	LD <sub>50</sub> (rat, oral) > 2000 mg/kg			
Acute Inhalation Toxicity:	No data available			
Acute Dermal Toxicity:	LD <sub>50</sub> (rat, dermal) > 5000 mg/kg			
Mutagenesis:	No data available  Target Organ  STOT SE Cat 3; may cause respirator irritation.			
Developmental Toxicity:	No data available	Carcinogenicity	The ingredients of this product are not classified as carcinogenic by NTP (National Toxicology Program), IARC, or OSHA	

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SECTION 12	ECOLOGICAL INFORMATION
Ecotoxicology:	May release ammonium ions that are toxic to fish. Un-ionized ammonia concentrations above 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream. Fish 96 hour LC <sub>50</sub> , OECD Guidelines 203 (rainbow trout): >86mg/L.

SECTION 13	DISPOSAL CONSIDERATIONS
	Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations regarding the proper disposal of this material. Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

SECTION 14	TRA	NSPORT INFO	
Regulatory Status:		Not regulated	
Identification Number:		HTS 3105.30.00	
Hazard Class:		Not applicable	
Proper Shipping Name		Not applicable	
Packing Group		Not applicable	
DOT Emergency Response	Guide Number:	Not applicable	
Transport in bulk according and the IBC Code:	to Annex II of MARPOL 73/78	Not applicable	
MARPOL Annex V:		Non-HME	
IMO/IMDG:		Not applicable	

SECTION 15		REGUI	LATORY INF	ORMATION		
CERCLA:	Not listed					
RCRA 261.33:	Not listed					
SARA TITLE III: (Exemptions at 40 CFR, Part 370 may apply for agricultural use, or for quantities of less than	Section 302/304: Not listed		RQ: No		TPQ: No	
	Section 311/312:					
	Acute: Yes	Chronic: No	Fire: No	Pressure: No	Reactivity: No	
10,000 pounds on-site.)	Section 313: Not	listed	·			
NTP, IARC, OSHA:	This material has not been identified as a carcinogen by NTP, IARC, or OSHA.					
Canada DSL and NDSL:	DSL: Yes ND:	SL: Not listed				
TSCA:	Listed on the TS	CA Inventory				

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CA Proposition 65: (Health & Safety Code Section 25249.5)	⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov
WHMIS:	WHMIS 2015 This SDS has been prepared according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.
REACH Registration	#01-2119490974-22-0074

SECTION 16	OTHER INFORMATION
Disclaimer:	The information in this document is believed to be correct as of the date issued. HOWEVER, MOSAIC MAKES NO GUARANTEE, REPRESENTATION, OR WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO THE USE OF THIS PRODUCT. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application and assumes the risk of use thereof. The conditions and use of this product are beyond the control of Mosaic, and Mosaic disclaims any liability for loss or damage incurred in connection with the use or misuse of this product. Each user should review the recommended industrial hygiene and safe handling procedures in the specific context of the intended use and determine whether they are appropriate.
Preparation:	The preparation of this SDS was in accordance with ANSI Z400.1-2010.
Revision Date:	March 24, 2020
Sections Revised:	1
SDS Number:	MOS 100011
References:	Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4 <sup>th</sup> Edition 2011 OSHA Hazard Communication Standard, 2012 MARPOL Annex V; The Fertilizer Institute (TFI), 2003; TOXNET

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	NFPA HAZARI	NFPA HAZARD CLASS HMIS HAZA		AZARD CLASS	
Other Hazard Classifications:	Health:	1	Health:	1	
	Flammability:	0	Flammability:	0	
	Instability:	0	Physical Hazard:	0	
	Special Hazard:	None	PPE:	Section 8	
	WHN Signal Word	NIS 2015 (HPR) HAZARD CLASS  Warning			
	Symbol	• • • • • • • • • • • • • • • • • • •			
	Classification	Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE Category 3			
	Hazard Statements	H303: May be harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation H335: May cause respiratory irritation			

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