

## **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	Crop nutrient		
	Corporate Headquarters	The Mosaic Company 101 East Kennedy Blvd, Ste 2500 Tampa, FL 33602		
Company Information:	US Guarantor	Mosaic Global Sales, LLC 13830 Circa Crossing Drive Lithia, FL 33547		
	Canada Guarantor	Mosaic Canada Crop Nutrition, LP 1700 – 2010 12th Ave. Regina, SK Canada S4P 0M3		
	Contact Info	www.mosaicco.com (800) 918-8270 or (813) 775-4200		
Emergency Telephone:	EMERGENCY OVERVIEW  24 Hour Emergency Telephone Number:  For Chemical Emergencies:  Spill, Leak, Fire or Accident  Call CHEMTREC  North America: (800) 424-9300 (reference CCN201871)  Others: (703) 527-3887 (collect)			

SECTION 2	HAZARD IDENTIFICATION		
OSHA/HCS Status:		This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). See appropriate classifications below.	
GHS Classification:		Skin Irritant Category 2 Hazard Statement H315 Eye Irritant Category 2B Hazard Statement H320	
<u>(!</u> )	Signal Word: WARNING Hazard Statement(s) H315: Causes skin irritation H320: Causes eye irritation		
Label Elements:			
Prevention:		P264: Wash hands thoroughly after handling. P280: Wear protective gloves	
Response:	P302+ P352 IF ON SKIN: Wash with plenty of water. P321 Specific Treatment, see supplemental first aid information.		

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	P332+ P313	If skin irritation occurs: Get medical advice/attention.
	P362+ P364	Take off contaminated clothing and wash it before reused.
	P305+P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes.
	F303+F331+ F330	Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+ P317	If eye irritation persists: Get medical help.
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%

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. chemical or solution soaks through clothing, remove clothing ar 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 firefighting activities involving hazardous materials.	

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. Material 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.			
	Eye/Face:	Approved eve protection to safeguard against potential eve		
	Skin:	The use of cloth or leacontact, possible irrita	ather work gloves is advised to prevent skin ation and absorption.	
Personal Protective Equipment (PPE):	Respiratory: Other:	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		
General Hygiene Considerations:	flushing eyes and skin.  Wash thoroughly after handling Use adequate ventilation			
	OSHA Permissible Exposure Limits (PEL):		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	

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

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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 respiratory 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	

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.			

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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	TRANSPORT 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 to Annex II of MARPOL 73/78 and the IBC Code:		Not applicable	
MARPOL Annex V:		Non-HME	
IMO/IMDG:		Not applicable	

SECTION 15	REGULATORY INFORMATION				
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 10,000 pounds on-site.)	Section 302/304:	Not listed	RQ: No		TPQ: No
	Section 311/312:				
	Acute: Yes	Chronic: No	Fire: No	Pressure: No	Reactivity: No
	Section 313: Not listed				
NTP, IARC, OSHA:	This material has	This material has not been identified as a carcinogen by NTP, IARC, or OSHA.			
Canada DSL and NDSL:	DSL: Yes NDSL: Not listed				
TSCA:	Listed on the TSCA Inventory				
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				

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SECTION 16	OTHER INFORMATION				
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Preparation:	The preparation	of this SDS v	was in accordanc	e with ANS	Z400.1-2010.
Revision Date:	November 2, 202	22			
Sections Revised:	1, 2, 3				
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				
	NFPA HAZARI	D CLASS HMIS HAZARD CLASS			
	Health:	1	Health:	1	
	Flammability:	0	Flammability:	0	
	Instability:	0	Physical Hazard:	0	
	Special Hazard:	None	PPE:	Section 8	
	WHMIS 2015 (HPR) HAZARD CLASS				
Other Hazard Classifications:	Signal Word	Warning			
	Symbol	<u>(1)</u>			
	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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