


Magruder 170411

SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
Trade Name:	Test Blend Fertilizer Materials
Chemical Name:	Mixture of inorganic and organic fertilizer salts and oxides
CAS Number:	Various – 57-13-6, 7783-20-2, 7783-28-0, 7722-76-1, 7447-40-7, 14977-37-8
Chemical Family:	Ammonium Phosphates—Inorganic Salt
Synonyms:	Urea, Ammonium Sulfate, Ammonium Phosphate Dibasic, Ammonium Phosphate Monobasic, Primary/Secondary Ammonium Phosphate, Diammonium Hydrogen Phosphate, Fertilizer Grade Ammonium Phosphate, DAP, MAP, Superphosphate, Muriate of Potash, Potassium Chloride, Potassium magnesium Sulfate
Primary Use:	Crop nutrient
Company Information:	<p>THE MOSAIC COMPANY 3033 Campus Drive Plymouth, MN 55441 www.mosaicco.com 800-918-8270 or 763-577-2700 8 AM to 5 PM Central Time US</p>
Emergency Telephone:	<p>24 Hour Emergency Telephone Number: <u>For Chemical Emergencies:</u> Spill, Leak, Fire or Accident Call CHEMTREC North America: (800) 424-9300 Others: (703) 527-3887 (collect)</p>

SECTION 2	HAZARD IDENTIFICATION	
GHS Classification:	Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE Category 3	Hazard Statement H303 Hazard Statement H315 Hazard Statement H320 Hazard Statement H335
	<p>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</p>	
Label Elements:		
Prevention:	P264: Wash thoroughly after handling. P280: Wear protective gloves P261: Avoid breathing dust P271: Use only outdoors or in a well-ventilated area.	
Response:	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.
	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.
	P304+ P340	IF INHALED: Remove person to fresh air and keep comfortable
	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:				
Composition:	Mixture of inorganic and organic fertilizer salts and oxides	CAS 57-13-6 7783-20-2 7783-28-0, 7722-76-1 7447-40-7 14977-37-8		Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE 3 (Lungs, Inhalation)

SECTION 4		FIRST AID MEASURES	
First Aid Procedures:	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.	
	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 exposure source and to 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 ₂ 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.		

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.		
Personal Protective Equipment (PPE):	Eye/Face:	Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended.	
	Skin:	The use of cloth or leather work gloves is advised to prevent skin contact, possible irritation and absorption.	
	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.	
	Other:	A source of clean water should be available in the work area for flushing eyes and skin.	
General Hygiene Considerations:	Wash thoroughly after handling Use adequate ventilation		
Exposure Guidelines:	OSHA Permissible Exposure Limits (PEL):	Particulates Not Otherwise Regulated: 5 mg/m ³ TWA (respirable); 15 mg/m ³ TWA (total) Ammonia: 50 ppm (35 mg/m ³) TWA	
	ACGIH Threshold Limit Value (TLV):	Particulates Not Otherwise Specified: 3 mg/m ³ TWA (respirable); 10 mg/m ³ TWA (inhalable) Ammonia: 25 ppm (18 mg/m ³) TWA; 35 ppm (27 mg/m ³) 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:	White, 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 50 - 66 lbs/ft ³ (800 - 1055 kg/m ³); Packed 52 - 68 lbs/ft ³ (830 - 1090 kg/m ³)
pH:	No data available	Solubility in Water:	50% - 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:	No data available
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.
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 (NH ₃) 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:	No data available		
Acute Oral Toxicity:	No data available		
Acute Inhalation Toxicity:	No data available		
Acute Dermal Toxicity:	No data available		
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 ₅₀ , 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	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 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: This product contains substances known to the State of California to cause cancer and/or birth defects or other reproductive harm.				
WHMIS:	<p>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.</p> <p>WHMIS 1988 (Repealed) Classifications and/or symbols from the Controlled Products Regulations (CPR) are included in the Other Hazardous Classifications in Section 16 for reference.</p>				

SECTION 16	OTHER INFORMATION																																										
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Preparation:	The preparation of this SDS was in accordance with ANSI Z400.1-2010.																																										
Revision Date:	October1, 2015																																										
Sections Revised:	All																																										
SDS Number:	1																																										
References:	Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4 th Edition 2011 OSHA Hazard Communication Standard, 2012 MARPOL Annex V; The Fertilizer Institute (TFI), 2003; TOXNET																																										
Other Hazard Classifications:	<table border="1"> <thead> <tr> <th colspan="2">NFPA HAZARD CLASS</th> <th colspan="2">HMIS HAZARD CLASS</th> <th colspan="2">WHMIS 1988 (CPR) HAZARD CLASS</th> </tr> </thead> <tbody> <tr> <td>Health:</td> <td>1</td> <td>Health:</td> <td>1</td> <td>Symbol</td> <td>N/A</td> </tr> <tr> <td>Flammability:</td> <td>0</td> <td>Flammability:</td> <td>0</td> <td>Classification</td> <td>Not WHMIS Controlled</td> </tr> <tr> <td>Instability:</td> <td>0</td> <td>Physical Hazard:</td> <td>0</td> <td>Sub Class</td> <td>N/A</td> </tr> <tr> <td>Special Hazard:</td> <td>None</td> <td>PPE:</td> <td>Section 8</td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">WHMIS 2015 (HPR) HAZARD CLASS</th> </tr> </thead> <tbody> <tr> <td>Signal Word</td> <td>Warning</td> </tr> <tr> <td>Symbol</td> <td></td> </tr> <tr> <td>Classification</td> <td>Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE Category 3</td> </tr> <tr> <td>Hazard Statements</td> <td>H303: May be harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation H335: May cause respiratory irritation</td> </tr> </tbody> </table>			NFPA HAZARD CLASS		HMIS HAZARD CLASS		WHMIS 1988 (CPR) HAZARD CLASS		Health:	1	Health:	1	Symbol	N/A	Flammability:	0	Flammability:	0	Classification	Not WHMIS Controlled	Instability:	0	Physical Hazard:	0	Sub Class	N/A	Special Hazard:	None	PPE:	Section 8			WHMIS 2015 (HPR) HAZARD CLASS		Signal Word	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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