SDS for Magruder 221141

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION		
Trade Name:	Phosphate Rock		
Chemical Name:	Carbonate- Fluorapatite		
CAS Number:	12415-02-0		
Chemical Family:	Minerals		
Synonyms:	Phos Rock Wet Rock Florida Land Pebble Francolite		
Primary Use:	Raw Material in the Production of Phosphate Fertilizers		
Company Information:	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		
Emergency Telephone:	EMERGENCY OVERVIEW 24 Hour Emergency Telephone Number: <u>For Chemical Emergencies</u> : Spill, Leak, Fire or Accident Call CHEMTREC North America: (800) 424-9300 (reference CCN201871) Others: (703) 527-3887 (collect)		

SECTION	2	HAZARD IDENTIFICATION		
GHS Classificatio	n:	Not Classi	fied	
		Hazard St	Signal Word: n/a Hazard Statement(s) Not Applicable	
Label Elements:				
Prevention:		Not Applicable		
Response:	Not app	licable	Not applicable	
Storage:	Not applicable		Not applicable	
Disposal:	Not applicable		Not applicable	

SECTION 3	COMPOSITION INFORMATION ON INGREDIENTS			
Formula:	Ca ₅ (PO ₄) ₃ (F,CI,OH)			
Composition:	Carbonate - Fluorapatite Silica as SiO ₂	CAS 12415-02-0 CAS 7631-86-9	60-90% 2.5-5%	Not applicable

SECTION 4	FIRST AID MEASURES		
	Eyes:	May cause irritation due to mechanical action. Rinse eye with water to remove dust or grit.	
First Aid Procedures:	Skin:	Prolonged or repeated contact may dry skin and cause irritation. Avoid contact with skin and clothing. Wash thoroughly after handling.	
	Inhaled:	Move victim to fresh air. Administer oxygen if breathing is difficult.	
	Ingestion:	Rinse mouth. Obtain medical attention immediately if ingested.	
Note 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	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.		

SECTION 6	ACCIDENTAL RELEASE MEASURES	
Response Techniques:	Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. As an immediate precautionary measure use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Keep unauthorized personnel away.	

SECTION 7	HANDLING AND STORAGE		
Handling:	Use only with adequate ventilation. Minimize dust generation and accumulation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.		
Storage:	Keep container closed. Store in a dry, well-ventilated place.		

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls:	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment).

	Eye/Face:	Wear safety goggles.		
	Skin:	Wear appropriate gloves. Wear long sleeves and/or protective coveralls.		
Personal Protective Equipment (PPE):	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 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or sympt are experienced.		
	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):		Silica (Quartz): $\frac{10 \text{ mg} / \text{m}^3}{\% \text{SiO}^2 + 2}$	
	ACGIH Threshold Limit Value (TLV):		Silica (Quartz): 0.025 mg/m ³ TWA	

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).
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SECTION 9

Appearance:	Multicolored pebble or fine granules	Vapor Pressure (mm Hg):	Not applicable
Odor:	None	Vapor Density (air=1):	Not applicable
Odor Threshold:	No data available	Specific Gravity or Relative Density:	2.9 – 3.1 MT/m3
Physical state:	Solid	Bulk Density:	Loose 80 - 150 lbs/ft ³
pH:	Not applicable	Solubility in Water:	Less than 1%
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:	Not applicable
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:	Excess heat.		
Incompatible Materials:	Avoid contact with strong acids, will cause the release of toxic and irritating fluoride and Pox gases.		
Hazardous Decomposition Products:	If heated to the point of decomposition, fumes of phosphorus oxides and fluorides may be released.		
Corrosiveness:	Not applicable.		

Hazardous Polymerization:	Will not occur
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SECTION 11	TOXICOLOGICAL INFORMATION					
Substance:	Carbonate - Fluorapatite					
Acute Oral Toxicity:	No data available	No data available				
Acute Inhalation Toxicity:	No data available					
Acute Dermal Toxicity:	No data available	No data available				
Substance:	Silica as SiO ₂					
Acute Oral Toxicity:	No data available					
Acute Inhalation Toxicity:	No data available					
Acute Dermal Toxicity:	No data available					
Mutagenesis:	No data available Target Organ No data available					
Developmental Toxicity:	No data available Carcinogenicity No data available					

SECTION 12	ECOLOGICAL INFORMATION
Ecotoxicology:	No data available

SECTION 13	DISPOSAL CONSIDERATIONS				
	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.				

SECTION 14	TRANSPORT INFO				
Regulatory Status:		Not regulated			
Identification Number:		HTS 2510.10.00 or 2510.20.00			
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: 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.					

SECTION 16	OTHER INFORMATION					
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Preparation:	The preparation of this SDS was in accordance with ANSI Z400.1-2010.					
Revision Date:	December 31, 2018					
Sections Revised:	4, 6, 15, 16					
SDS Number:	MOS 200007					
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					

	NFPA HAZAR	NFPA HAZARD CLASS		HMIS HAZARD CLASS		WHMIS 1988 (CPR) HAZARD CLASS	
	Health:	1	Health:	1	Symbol	N/A	
	Flammability:	0	Flammability:	0			
	Instability:	0	Physical Hazard:	0	Classification	Not WHMIS Controlled	
Other Hazard	Special Hazard:	None	PPE:	Section 8	Sub Class	N/A	
Classifications:	WHN	WHMIS 2015 (HPR) HAZARD CLASS					
	Signal Word	Not applicable					
	Symbol	Not applic	able				
	Classification	Not applic	able				
	Hazard Statements	Not applic	able				