



Safety Data Sheet

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
Trade Name:	Phosphate Rock
Chemical Name:	Carbonate-Fluorapatite
CAS Number:	1306-05-4
Chemical Family:	Minerals
Synonyms:	Phos Rock Wet Rock Florida Land Pebble Francolite
Primary Use:	Raw Material in the Production of Phosphate Fertilizers
Company Information:	Association of Fertilizer and Phosphate Chemist P.O. Box 1645 Bartow, FL 33831 www.apfc.net 863-800-9319 8 AM to 5 PM Eastern Time US
Emergency Telephone:	EMERGENCY OVERVIEW 24 Hour Emergency Telephone Number: For Chemical Emergencies: Spill, Leak, Fire or Accident Call CHEMTREC North America: (800) 255-3924 (reference MIS1010185) Others: (813) 248-0585 (collect)

SECTION 2	HAZARD IDENTIFICATION	
GHS Classification:	Not Applicable	Not Applicable
	Signal Word: WARNING Hazard Statement(s) Not Applicable	
Label Elements:		
Prevention:	Not Applicable	
Response:	Not applicable	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,Cl,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	
First Aid Procedures:	Eyes:	Flush with plenty of water for at least 15 minutes. Get medical attention as soon as possible.



	Skin:	Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.
	Inhaled:	Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
	Ingestion:	Rinse mouth. Do not give anything by mouth to an unconscious person. 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 CO2 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:	Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. 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).
Personal Protective Equipment (PPE):	Eye/Face: Wear safety goggles.
	Skin: Wear appropriate gloves. Wear long sleeves and/or protective coveralls.



	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 EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms 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): $\frac{10 \text{ mg}}{\text{m}^3}$ %SiO ₂ + 2
	ACGIH Threshold Limit Value (TLV):	Silica (Quartz): 0.025 mg/m ³ TWA

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:	Multicolored pebble	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
Physical state:	Solid	Bulk Density:	Loose 80 - 150 lbs/ft ³ (1280 - 2400 kg/m 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

SECTION 11	TOXICOLOGICAL INFORMATION		
Substance:	Carbonate - Fluorapatite		
Acute Oral Toxicity:	No data available		
Acute Inhalation Toxicity:	No data available		
Acute Dermal Toxicity:	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
	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
Disclaimer:	<p>The information in this document is believed to be correct as of the date issued. HOWEVER, AFPC 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 AFPC, and AFPC 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.</p>
Preparation:	The preparation of this SDS was in accordance with ANSI Z400.1-2010.



Revision Date:	February 14, 2018					
Sections Revised:	All					
SDS Number:	AFPC 000001					
References:	Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4th Edition 2011 OSHA Hazard Communication Standard, 2012 MARPOL Annex V; The Fertilizer Institute (TFI), 2003; TOXNET					
Other Hazard Classifications:	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	Not applicable				
	Symbol	Not applicable				
	Classification	Not applicable				
	Hazard Statements	Not applicable				