

MATERIAL SECURITY DATA SHEET

EXPEDITION DATE January 4th, 2021	REVISION DATE January 9th, 2021	COMPANY NAME ZEOLITECH S. DE R.L. DE C.V.
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SECTION I.- GENERAL DATA OF THE RESPONSIBLE FOR THE CHEMICAL SUBSTANCE

1.- NAME OF THE MANUFACTURER OR IMPORTER: ZEOLITECH S. DE R.L. DE C.V.		2.- IN CASE OF EMERGENCY NOTIFY: OFFICE: CUERNAVACA, MORELOS, MEXICO + 52 777.243.7595 or 777.243.9779 PLANT: TEHUACÁN, PUEBLA, MEXICO + 52 238.100.9176	
3.- COMPLETE ADDRESS:			
STREET PRIVADA DE LILAS	No. 7	SUBURB BELLAVISTA	POSTAL CODE 62140
LOCALITY CUERNAVACA	STATE MORELOS	COUNTRY MÉXICO	

SECTION II.- GENERAL DATA OF THE CHEMICAL SUBSTANCE

1.- COMMERCIAL NAME ROCA FOSFÓRICA	2.- CHEMICAL NAME HIDROXYLAPATITE
3.- CLASS AND SUBCLASS PHOSPHATES, ARSENATES, VANADATES	4.- CHEMICAL FAMILY ANHYDROUS WITH COMPLEMENTARY ANIONS
5.- MOLECULAR WEIGHT NON RELEVANT	6.- FORMULA Ca ₅ (PO ₄) ₃ (F,Cl,OH)

SECTION III.- DANGEROUS COMPONENTS

1.- COMPONENTS PERCENTAGE AND NAME 77%HYDROXYLAPATITE(P ₂ O ₅ =31%, SiO ₂ =10%, Al ₂ O ₃ =3%, CaO=43% Fe ₂ O ₃ =1%, Na ₂ O=0.5%)	2.- CAS N° 1306-06-5	3.- UN N° N/A	4.- CARCINOGENIC OR TERATOGENIC <0.1%	
5.- CONCENTRATION PERMISSIBLE LIMIT N/A	6.- IPVS ppm N/A	7.- DANGEROUS DEGREE:		
		7.1.- HEALTH 1	7.2.- FLAMMABILITY 1	7.3.- REACTIVITY 0

SECTION IV.- PHYSICAL PROPERTIES

1.- MELTING POINT, °C: > 1400 °C	2.- BOILING POINT, °C: N/A
3.- VAPOR PRESSURE, mmHg at 20°C: N/A	4.- RELATIVE DENSITY g/cm3: 3.16
5.- VAPOR DENSITY (AIR=1): N/A	6.- WATER SOLUBILITY, g/ml: < 0,1
7.- WATER REACTIVITY: NONE	8.- PHYSICAL STATE, COLOR AND ODOR: ODORLESS BROWN POWDER
9.- EVAPORATION RATE (BUTYL ACETATE=1): N/A	10.- FLAMMABLE POINT: N/A
11.- AUTOIGNITION TEMPERATURE (°C): N/A	12.- VOLATILITY PERCENTAGE, % : N/A
13.- FLAMMABILITY LIMITS (%): LOWER: N/A UPPER: N/A	

SECTION V.- FIRE AND EXPLOSION DATA

1.- MEANS OF EXTINCTION: Use the most appropriate extinguisher				
WATER MIST N/A	FOAM N/A	HALON: N/A	CO2 N/A	DRY CHEMICAL POWDER N/A
2.- PROTECTION EQUIPMENT FOR FIRE CONTROL: FIRE RETARDANT CLOTHS AND GAS MASKS.				
3.- SPECIAL PROCEDURE FOR FIRE CONTROL: N/A				
4.- CONDITIONS LEADING TO A NON USUAL FIRE OR EXPLOSION DANGER: NON FLAMMABLE				
5.- HAZARDOUS COMBUSTION PRODUCTS: N/A				

SECTION VI.- REACTIVITY DATA		
1.- SUBSTANCE:		2.- CONDITIONS TO AVOID:
STABLE ☒	UNSTABLE ☐	NONE
3.- INCOMPATIBILITY WITH OTHER SUBSTANCES: STRONG ACID OR BASE SUBSTANCES		
4.- HAZARDOUS DECOMPOSITION PRODUCTS: N/A		
5.- DANGEROUS POLYMERIZATION:		6.- OTHER:
CAN OCCUR ☐	CANNOT OCCUR ☒	N/A

SECTION VII.- TOXICOLOGICAL PROPERTIES		
ROUTE OF ENTRY	SYMPTOMS OF EXPOSURE TO PRODUCT	FIRST AID
1.- ACCIDENTAL INGESTION	CAN CAUSE IRRITATION OF THE MUCUS.	INDUCE VOMITING. GET MEDICAL ATTENTION.
2.- EYE CONTACT	CAN CAUSE IRRITATION	RINSE GENEROUSLY FOR AT LEAST 15 MINUTES. IF THE IRRITATION PERSISTS, CONSULT YOUR DOCTOR.
3.- SKIN CONTACT	CAN CAUSE DRYNESS AND ITCHING	WASH SKIN WITH WATER AND SOAP. IF THE IRRITATION PERSISTS, CONSULT YOUR DOCTOR.
4.- SKIN ABSORPTION	N/A	N/A
5.- INHALATION	CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT	MOVE TO A VENTILATED AREA. IF BREATHING DIFFICULTY PRESENTED, USE OXIGEN MASKS AND SEEK MEDICAL ATTENTION.
6.- CARCINOGENIC CHEMICAL SUBSTANCE:		
STPS (INST. No.10) YES ☐ NO ☒		
OTHER: YES ☐ NO ☒		
TOXICOLOGICAL INFORMATION: CL ₅₀ : N/A DL ₅₀ : N/A		

SECTION VIII.- LEAKAGE OR SPILL INDICATIONS
USE THE PROPER TOOLS NECESSARY TO PLACE THE PRODUCT IN AN APPROPRIATE CONTAINER. WASH WITH WATER THE STORAGE AREA AND DISPOSE THE WASTE ACCORDING TO LOCAL NORMATIVITY.

SECTION IX.- PERSONAL PROTECTION EQUIPMENT
1.- SPECIFY TYPE: EYE GOGGLES, BREATHING MASK, APPROPRIATE FOOTWEAR AND CLOTHING.
2.- HYGIENE PRACTICES: WASH YOUR HANDS AND FACE AFTER HANDLING THE PRODUCT AND BEFORE INGESTING FOOD OR BEVERAGES.

SECTION X.- SPECIAL SHIPPING INFORMATION		
Material classified as:	NOT HAZARDOUS	Pictogram:
Secondary danger:	N/A	 
UN:	N/A	
Container / packaging:	25 OR 50 KG RAFFIA SACKS, 1 TON BIG-BAGS, BULK	
NFPA:	N/A	

SECTION XI.- ECOLOGICAL INFORMATION	
Ecotoxicity:	N/A

SECTION XII.- SPECIAL PRECAUTIONS
1.- HANDLING PROCEDURES AND EQUIPMENT: WEIGHTLIFTING BELT, EYE GOGGLES, BREATHING MASK, APPROPRIATE FOOTWEAR AND CLOTHING.
2.- SPECIAL SHIPPING INFORMATION: KEEP IN A DRY PLACE, PREFERABLY ON WOODEN FLOORING OR PLATFORM.