

HAZARD RATING  
 4=EXTREME  
 3=HIGH  
 2=MODERATE  
 1=SLIGHT  
 0=INSIGNIFICANT


<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>

SAFETY DATA SHEET  
 VEXCON NO. RP130  
**CERTI-VEX PATCH UW**

**SECTION I - GENERAL INFORMATION**

<b>PRODUCT IDENTIFICATION:</b>	
<b>CERTI-VEX PATCH UW</b>	
<b>VOC CONTENT:</b>	0 GRAMS/LITER
<b>CATEGORY:</b>	NON-REGULATED
<b>COMMON NAME:</b>	CEMENTITIOUS GROUTING MATERIAL
<b>MANUFACTURER:</b>	VEXCON CHEMICALS, INC
<b>ADDRESS</b>	7240 STATE RD, PHILADELPHIA, PA 19135
<b>EMERGENCY NO.:</b>	800.858.2828 (PolySat Inc)
<b>TELEPHONE NO.:</b>	215.332.7709 (Vexcon)
<b>CHEMTREC NO.:</b>	800.424.9300 (CCN# 23822)
<b>PREPARED:</b>	MARCH 1996
<b>UPDATED:</b>	SEPTEMBER 2019
<b>PREPARED BY:</b>	DARRY F. MANUEL , PRESIDENT

**SECTION II - HAZARD IDENTIFICATION**

<b>CLASSIFICATION OF THE CHEMICAL</b>
ACUTE TOXICITY – CATEGORY 4 SKIN IRRITATION – CATEGORY 2 SERIOUS EYE DAMAGE – CATEGORY 1 SKIN SENSITIZATION – CATEGORY 1 CARCINOGENICITY – CATEGORY 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – CATEGORY 3 SPECIFIC TARGET ORGAN TOXICITY – (REPEATED EXPOSURE) – CATEGORY 1
<b>SIGNAL WORD:</b> DANGER
<b>HAZARD STATEMENT:</b> HARMFUL IF SWALLOWED, CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE DAMAGE. MAY CAUSE AN ALLERGIC SKIN REACTION. MAY CAUSE CANCER. MA CAUSE RESPIRATORY IRRITATION. CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.
<b>PRECAUTIONARY STATEMENT:</b> THIS PRODUCT IS A GRAY POWDERED SOLID. CONTINUED INHALATION OF DUST OVER A PERIOD OF YEARS WITHOUT PROPER RESPIRATOR AND VENTILATION CONTROL WILL CAUSE SILICOSIS AND LUNG CANCER. USE ONLY WITH SAFETY GLASSES, NEOPRENE GLOVES, AND PROTECTIVE CLOTHING RECOMMENDED.


**SECTION III HAZARDOUS INGREDIENTS**

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
PORTLAND CEMENT	65997-15-1	40-60%	50 mppcf OSHA TWA OSHA PEL 15 mg/m3 (TWA) ACGIH TLV 10 mg/m3 (TWA)	NONE
SILICA SAND / SILICA, CRYSTALLINE QUARTZ*	14808-60-7	40-60%	OSHA PEL: Total dust: 30mg/m3/(%SiO2 + 2) Respirable: 10 mg/m3/(%SiO2 + 2)	NONE

PERFORMANCE ADDITIVES	N/A	<1%	N/A	NONE
*CONTINUED INHALATION OF DUST OVER A PERIOD OF YEARS WITHOUT PROPER RESPIRATOR AND VENTILATION CONTROLS WILL CAUSE SILICOSIS AND LUNG CANCER. CURRENT OSHA STANDARD FOR CRYSTALLINE SILICA (RESPIRABLE DUST) IS 10mg SILICA PER CUBIC METER OF AIR DIVIDED BY THE PERCENT SiO2 AVERAGED OVER AN EIGHT HOUR WORK SHIFT, AND FOR TOTAL DUST IS 30mg/m3 DIVIDED BY THE PERCENT SiO2 AVERAGED OVER AN EIGHT HOUR WORK SHIFT.				

**SECTION IV FIRST AID MEASURES**

**HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE**

<b>ROUTES OF EXPOSURE:</b>	
<b>INHALATION:</b>	DUST CAN CAUSE INFLAMMATION OF NOSE TISSUE LINING AND CORNEA. HYPERSENSITIVITY MAY CAUSE ALLERGIC DERMATITIS. CONTINUED INHALATION OF DUST OVER A PERIOD OF YEARS WITHOUT PROPER RESPIRATOR AND VENTILATION CONTROLS WILL CAUSE SILICOSIS AND LUNG CANCER.
<b>SKIN CONTACT:</b>	PRODUCT IS ALKALINE AND CAN IRRITATE THE SKIN
<b>SKIN ABSORPTION:</b>	PRODUCT IS ALKALINE AND CAN IRRITATE THE SKIN
<b>EYE CONTACT:</b>	THIS PRODUCT MAY BE AN EYE IRRITANT.
<b>INGESTION / INHALATION</b>	CURRENT OSHA STANDARDS FOR CRYSTALLINE SILICA ARE 10mg SILICA PER CUBIC METER OF AIR DIVIDED BY THE PERCENT SiO2 AVERAGED OVER AN EIGHT HOUR WORK SHIFT AND FOR TOTAL DUST IS 30 mg/m3 DIVIDED BY THE PERCENT SiO2 AVERAGED OVER AN EIGHT HOUR WORK SHIFT.
<b>EFFECTS OF OVEREXPOSURE:</b>	WITHOUT PROPER RESPIRATOR AND VENTILATION CONTROLS PROLONGED INHALATION OF DUST OVER A PERIOD OF YEARS WILL CAUSE SILICOSIS AND LUNG CANCER.
<b>ACUTE OVEREXPOSURE:</b>	PRODUCT IS ALKALINE AND CAN IRRITATE THE SKIN AND EYES, AS WELL AS THE MUCOUS MEMBRANES.
<b>EMERGENCY AND FIRST AID PROCEDURES:</b>	
<b>EYES:</b>	DUST CAN IRRITATE EYES AND UPPER RESPIRATORY SYSTEM. FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>SKIN:</b>	CEMENT CAN DRY THE SKIN AND CAUSE ALKALI BURNS. NO HEAT IS SENSED. WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
<b>INHALATION:</b>	REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.

<b>INGESTION:</b>	IMMEDIATELY SEEK MEDICAL ADVICE. GIVE MILK OR EGG WHITE BEATEN WITH WATER UNTIL VOMIT FLUID IS CLEAR. IF VOMITING DOES NOT OCCUR, INDUCE VOMITING BY GAGGING THE VICTIM. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
-------------------	---

EQUIVALENT.
<b>EYES:</b> CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.
<b>GLOVES:</b> IMPERVIOUS GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR PVA.
<b>OTHER CLOTHING AND EQUIPMENT:</b> TO PREVENT BODY CONTACT, IMPERVIOUS CLOTHING AND BOOTS ARE RECOMMENDED. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

**SECTION V FIREFIGHTING MEASURES**

<b>EXTINGUISHING MEDIA:</b>	EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY <b>REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY.</b> WATER MAY BE USED TO REDUCE THE RATE OF BURNING AND FOR COOLING PURPOSES.
<b>GENERAL HAZARD:</b>	<b>"EMPTY" CONTAINERS</b> RETAIN PRODUCT RESIDUE.
<b>UNUSUAL FIRE AND EXPLOSION HAZARD:</b>	<b>NOT APPLICABLE. NOT COMBUSTIBLE OR EXPLOSIVE.</b>
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	THIS CEMENTITIOUS MATERIAL POSES NO FIRE RELATED HAZARDS.

**SECTION VI ACCIDENTAL RELEASE MEASURES**

<b>STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:</b>	USE DRY CLEAN-UP METHOD. SWEEP UP--AVOID CREATING EXCESSIVE DUST. WEAR APPROVED MSHA/NIOSH RESPIRATORS. DO NOT WASH DOWN DRAINS. EMERGENCY PROCEDURES NOT REQUIRED.
--	---

**SECTION VII HANDLING AND STORAGE**

<b>PRECAUTIONARY STATEMENTS:</b>	PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE, REMOVE SATURATED APPAREL AND FLUSH AFFECTED BODY AREAS WITH WATER. CLOTHING MUST BE WASHED AND DRIED BEFORE REUSE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.
<b>FIRE FIGHTING:</b>	WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIUM BUT HELPFUL IN KEEPING ADJACENT CONTAINERS COOL. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. PERSONNEL SHOULD AVOID INHALATION OF VAPORS.
<b>OTHER HANDLING AND STORAGE REQUIREMENTS:</b>	STORE IN AIR TIGHT CONTAINERS OR POLY LINED BAGS IN A COOL DRY AREA. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DO NOT STORE OR CONSUME FOOD, DRINK, OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.

**SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>VENTILATION REQUIREMENTS:</b>	USE AS REQUIRED TO CONTROL AIRBORNE DUSTS. CRYSTALLINE SILICA (RESPIRABLE DUST) MUST BE WITHIN CURRENT OSHA STANDARDS: 10mg SILICA PER CUBIC METER OF AIR DIVIDED BY THE PERCENT SiO2 AVERAGED OVER AN EIGHT HOUR WORK SHIFT AND FOR TOTAL DUST IS 30 mg/m3 DIVIDED BY THE PERCENT SiO2 AVERAGED OVER AN EIGHT HOUR WORK SHIFT.
<b>RESPIRATORY (SPECIFY IN DETAIL):</b>	MSHA/NIOSH APPROVED RESPIRATOR SUCH AS 3M™ 9900 Series Respirators OR

**SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>BOILING POINT: (760mmHg)</b>	<b>MELTING/FREEZING POINT:</b>
NOT APPLICABLE	NOT APPLICABLE
<b>VAPOR PRESSURE:</b>	<b>VAPOR DENSITY (AIR=1):</b>
NOT APPLICABLE	NOT APPLICABLE
<b>SOLUBILITY IN H2O % BY WT:</b>	<b>% VOLATILES BY VOL:</b>
SLIGHTLY SOLUBLE 0.1 TO 1%	NOT APPLICABLE
<b>EVAPORATION RATE (BuAc=1):</b>	<b>SPECIFIC GRAVITY (H2O=1)</b>
NOT APPLICABLE	2.65
<b>pH (AS IS):</b> N/A	<b>pH WHEN MIXED:</b> 12 TYPICAL
<b>APPEARANCE AND ODOR:</b> POWDERED GRAY SOLID WITH NO DISTINCT ODOR	
<b>FLASH POINT:</b> (TEST METHOD)	<b>NON-COMBUSTIBLE</b>
<b>AUTOIGNITION TEMP:</b>	<b>NOT APPLICABLE</b>
<b>FLAMMABLE LIMITS IN AIR, % BY VOL:</b>	<b>NOT APPLICABLE</b>

**SECTION X STABILITY AND REACTIVITY**

<b>CONDITIONS CONTRIBUTING TO INSTABILITY:</b>	WATER
<b>INCOMPATIBILITY:</b>	WET CEMENTITIOUS MATERIAL IS ALKALINE. THIS PRODUCT IS INCOMPATIBLE WITH ACIDS, AMMONIUM SALTS, AND ALUMINUM METAL.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	WILL NOT SPONTANEOUSLY OCCUR. ADDING WATER RESULTS IN HYDRATION AND PRODUCES CALCIUM HYDROXIDE, WHICH IS ALKALINE. THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE, AND UNIDENTIFIED ORGANICS.
<b>CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:</b>	N/A WILL NOT OCCUR

**SECTION XI TOXICOLOGICAL INFORMATION**

<b>GENERAL EFFECTS OF ACUTE EXPOSURE</b>		
	COMPONENT ANALYSIS	SILICA, CRYSTALLINE, QUARTZ – LD50 (ORAL) – 500 mg/kg, RAT PORTLAND CEMENT – NA
	EYE	IRRITATING TO EYES. MAY CAUSE BURNS IN THE PRESENCE OF MOISTURE. SYMPTOMS MAY INCLUDE DISCOMFORT OR PAIN, EXCESS BLINKING AND TEAR PRODUCTION, WITH POSSIBLE REDNESS AND SWELLING
	SKIN	MAY CAUSE SKIN IRRITATION. MAY CAUSE

		BURNS IN THE PRESENCE OF MOISTURE. SKIN CONTACT DURING HYDRATION MAY SLOWLY DEVELOP SUFFICIENT HEAT THAT MAY CAUSE SEVERE BURNS POSSIBLY RESULTING IN PERMANENT INJURY. DO NOT ALLOW PRODUCT TO HARDEN AROUND ANY BODY PART OR ALLOW CONTINUOUS, PROLONGED CONTACT WITH SKIN. HANDLING CAN CAUSE DRY SKIN.
	INGESTION	MAY BE HARMFUL IS SWALLOWED. MAY CAUSE STOMACH DISTRESS, NAUSEA OR VOMITING.
	INHALATION	EXPOSURE TO AIRBORNE CONCENTRATIONS ABOVE STATURORY OR RECOMMENDED EXPOSURE LIMITS MAY CAUSE IRRITATION OF THE NOSE, THROAT AN D LUNGS. MAY CAUSE MECHANICAL IRRITATION (ABRASION).
<b>GENERAL EFFECTS OF CHRONIC EXPOSURE</b>		
	TARGET ORGANS	LUNGS
	CHRONIC EFFECTS	HAZARDOUS BY OSHA CRITERIA: RESPIRABLE CRYSTALLINE SILICA IS THE FORM OF QUARTZ OF CRISTOBALITE FROM OCCUPATIONAL SOURCES IS LISTED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AND NATIONAL TOXICOLOGY PROGRAM (NTP) AS A LUNG CARCINOGEN. PROLONGED EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA HAS BEEN KNOWN TO CAUSE SILICOSIS, A LUNG DISEASE, WHICH MAY BE DISABLING. WHILE THERE MYA BE A FACTOR OF INDIVIDUAL SUSCEPTIBILITY TO A GIVEN EXPOSURE TO RESPIRABLE SILICA DUST, THE RISK OF CONTRACTING SILICOSIS AND THE SEVERITY OF THE DISEASE IS CLEARLY RELATED TO THE AMOUNT OF DUST EXPOSURE AND THE LENGTH OF TIME (USUALLY YEARS) OF EXPOSURE.
	CARCINOGENICITY	HAZARDOUS BY OSHA CREITERIA
	INGREIENTS	CILICA, CRYSTALLINE, QUARTZ - G-A2, I-1, N-1, CP65 PORTLAND CEMENT – G-A4
	INHALATION	THE METHOD OF EXPOSURE TO CRYSTALLINE SILICA CAN LEAD TO ADVERSE HEALTH EFFECTS DESCRIBED BELOW;
	SILICOSIS	THE MAJOR CONCER IS SILICOSIS, CAUSED BY THE INHALATION AND RETENTION OF RESPIRABLE CRYSTALLINE SILICA

		DUST. SILICOSIS CAN EXIST IN SEVERAL FORMS: CHRONIC (OR ORDINARY) ACCELERATED, OR ACUTE. <b>CHRONIC OR ORDINARY SILICOSIS</b> (OFTEN REFERRED TO AS SIMPLE SILICOSIS) IS THE MOST COMMON FORM OF SILICOSIS, AND CAN OCCURE AFTER MANY YEARS OF EXPOSURE TO RELATIBELY LOW LEVELS OF AIRBORNE RESPIRABLE CRYSTALLINE SILICA DUST. IT IS FURTHER DEFINED AS EITHER SIMPLE OR COMPLICATED SILICOSIS. SIMPLE SILICOSIS IS CHARRIZED BY LUNG LESIONS (SHOWN AS RADIOGRAPHIC OPACITIES) LESS THAN 1 CENTERMETER IN DIAMETER, PRIMARILY IN THE UPPER LUNG ZONES. OFTEN, SIMPLE SILICOSIS IS NOT ASSOCIATED WITH SYMPTOMS, DETECTABEL CHANGES IN LUNG FUNCTION OR DIASBILITY. <b>SIMPLE SILICOSIS</b> MAY BE PROGRESSIVE AND MAY DEVELOP INTO COMPLICATED SILICOSIS OR PROGRESSIVE MASSIVE FIBROSIS (PMF). COMPLICATED SILICOSIS OR PMF IS CHARACTERIZED BY LUNG LESIONS (SHOWN AS RADIOGRAPHIC OPACITIES) GREATER THAN 1 CENTIMETER IN DIAMETER. ALTHOUGH THERE MAY BE NO SYSMPTOMS ASSOCIATED WITH COMPLICATED SILICOSIS OR PMF, THE SYMPTOMS, IF PRESENT, ARE SHORTNESS OF BREATH, WHEEZING, COUGH AND SPETUM PRODUCTION. COMPLICATED SILICOSIS OR PMF MAY BE ASSOCIATED WITH DECREASED LUNG FUNCTION AND MAY BE DISABLING. ADVANCED COMPLICATED SILICOSIS OR PMF MAY LEAD TO DEATH. ADVANCED COMPLICATED SILICOSIS OR PMF CAN RESULT IN HEART DISEASE SECONDARY TO THE LUNG DISEASE (COR PUMONALE). <b>ACCELERATED SILICOSIS</b> CAN OCCUR WITH EXPOSURE TO HIGH CONCENTRATIONS OF RESPIRABLE CRYSTALLINE SILICA OVER A RELATIVELY SHORT PERIOD: THE LUNCH LESIONS CAN APPEAR WITHIN FIVE (5) YEARS OF INITIAL EXPOSURE. PROGRESSION CAN BE RAPID. ACCELERATED SILICOSIS IS SIMILAR TO
--	--	---

		<p>CHRONIC OR ORDINARY SILICOSIS, EXCEPT THAT LUNG LESIONS APPEAR EARLIER AND PROGRESSION IS MORE RAPID.</p> <p><b>ACUTE SILICOSIS</b> CAN OCCUR WITH EXPOSURE TO VERY HIGH CONCENTRATIONS OF RESPIRABLE CRYSTALLINE SILICA OVER A VERY SHORT TIME PERIOD, SOMETIMES AS SHORT AS A FEW MONTH. THE SYMPTOMS OF ACUTE SILICOSIS INCLUDE PROGRESSIVE SHORTNESS OF BREATH, FEVER, COUGH, AND WEIGHT LOSS. ACUTE SILICOSIS IS FATAL.</p>
	CANCER	<p><b>IARC</b> – THE INTERNATIONAL AGENCY FOR RESEARCH OF CANCER (IARC) CONCLUDED THAT THERE WAS “SUFFICIENT EVIDENCE IN HUMANS FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA IN THE FORMS OF QUARTZ OR CRISTOBALITE FROM OCCUPATIONAL SOURCES” AND THAT THERE IS “SUFFICIENT EVIDENCE IN EXPERIMENTAL ANIMALS FOR THE CARCINOGENICITY OF QUARTZ AND CRISTOBALITE” THE OVER ALL IARC EVALUATION WAS THAT “CRYSTALLINE SILICA INHALED IN THE FORM OF QUARTZ OF CRISTOBALITE FORM OCCUPATIONAL SOURCES IS CARCINOGENIC TO HUMANS (GROUP 1)” THE IARC EVALUATION NOTED THAT “CARCINOGENICITY WAS NOT DETECTED IN ALL INDUSTRIAL CIRCUMSTANCES STUDIES. CARCINOGENICITY MAY BE DEPENDENT ON THE INHERENT CHARACTERISTIC OF THE CRYSTALLINE SILICA OR ON EXTERNAL FACTORS AFFECTING ITS BIOLOGICAL ACTIVITY OR DISTRIBUTION OF ITS POLYMORPHS”.</p> <p><b>NTP</b> – THE NATIONAL TOXICOLOGY PROGRAM IN IT NINTH ANNUAL REPORT ON CARCINOGENS CLASSIFIED “SILICA, CRYSTALLINE (RESPIRABLE)” AS A KNOWN HUMAN CARCINOGEN.</p> <p><b>OSHA</b> – CRYSTALLINE SILICA (QUARTZ) IS NOT REGULATED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AS A CARCINOGEN.</p>
	AUTOIMMUNE DISEASES	SEVERAL STUDIES HAVE REPORTED EXCESS CASES OF SEVERAL AUTOIMMUNE

		DISORDERS – SCLERODERMA, SYSTEMIC LUPUS, ERYTHEMATOSUS, RHEMATOID ARTHRITIS – AMONG SILICA EXPOSED WORKERS.
	TUBERCULOSIS	INDIVIDUALS WITH SILICOSIS ARE AT INCREASED RISK TO DEVELOP PULMONARY TUBERCULOSIS, IF EXPOSED TO PERSONS WITH TUBERCULOSIS.
	KIDNEY DISEASE	SEVERAL STUDIES HAVE REPORTED EXCESS CASES OF KIDNEY DISEASE, INCLUDING END STAGE RENAL DISEASE, AMONG SILICA EXPOSED WORKERS.
	NON-MALIGNANT RESPIRATOR DISEASE	THE READES IS REFERRED TO SECTION 3.5 OF THE NIOSH SPECIAL HAZARD REVIEW FOR INFORMATION CONCERNING THE ASSOCIATION BETWEEN EXPOSURE TO CRYSTALLINE SILICA AND CHRONIC BRONCHITIS, EMPHYSEMA AND SMALL AIRWAYS DISEASE. THERE ARE STUDIES THAT DISCLOSE AN ASSOCIATION BETWEEN DUSTS FOUND IN VARIOUS MINING OCCUPATIONS AND NON-MALIGNANT RESPIRATORY DISEASES, PARTICULARLY AMONG SMOKERS. IT IS UNCLEAR WHETHER THE OBSERVED ASSOCIATIONS EXIST ONLY WITH UNDERLYING SILICOSIS, ONLY AMONG SMOKERS, OR RESULT FROM EXPOSURE TO MINERAL DUSTS GENERALLY (INDEPENDENT OF THE PRESENCE OR ABSENCE OF CRYSTALLINE SILICA, OR THE LEVER OF CRYSTALLINE IN THE DUST

**SECTION XII ECOLOGICAL INFORMATION**

<b>ECOTOXICITY</b>	THIS PRODUCT IS NOT KNOWN TO BE ECOTOXIC. NORMAL DILUTION OF THIS PRODUCT TO DRAINS, SEWERS, SPETIC SYSTEMS AND TREATMENT PLANTS IS NOT CONSIDERED ENVIRONMENTALLY HARMFUL.
<b>AQUATIC TOXICITY</b>	NA
<b>PERSISTENCE/DEGRADABILITY</b>	NA
<b>BIOACCUMULATION/ACCUMULATION</b>	NA
<b>MOBILITY IN ENVIRONMENT</b>	NA
<b>ENVIRONMENTAL FATE</b>	NA

**SECTION XIII DISPOSAL CONSIDERATIONS**

**AQUATIC TOXICITY** (E.G. 96 HR. TLM): Do not discharge this product into public waters or waterways unless authorized by a National Pollution Discharge Elimination System (NPDES) permit issued by the Environmental Protection Agency (EPA).

**WASTE DISPOSAL METHOD:** DISPOSE OF AS A COMMON NON HAZARDOUS WASTE, IN COMPLIANCE WITH LOCAL AND FEDERAL REGULATIONS. NOT CONSIDERED A HAZARDOUS WASTE BY THE EPA (RCRA).

**SECTION XIV TRANSPORTATION INFORMATION**

Governing Body	Mode	UN Number	Proper Shipping Name	Hazard Class	Packing Group
DOT	GROUND	NON-REGULATED	NON REGULATED	NON REGULATED	NA
IATA	AIR	NON REGULATED	NON REGULATED	NON REGULATED	NA
IMDG	OCEAN	NON REGULATED	NON REGULATED	NON REGULATED	NA
<b>MARINE POLLUTANT:</b>	THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B)				

**SECTION XV REGULATORY INFORMATION**

**CERCLA:** IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 1-800-424-8802 or 202-426-2675.

**NO REPORTABLE SPILL QUANTITY (RQ) HAS BEEN ESTABLISHED FOR THIS PRODUCT.**

**SARA TITLE III:** UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND RE-AUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: HAZARDOUS

**ADDITIONAL REGULATORY CONCERNS:** (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)

FEDERAL / FDA / USDA:

**MARINE POLLUTANTS:** THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B). SEE SECTION XIV

**CALIFORNIA PROP 65:** WARNING: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. (Epichlorohydrin, Ethylbenzene, Crystalline Silica particles of respirable size)

**CERCLA / RQ: NONE ESTABLISHED.**  
THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A):

**TSCA:** IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? **YES**

**SECTION XVI OTHER INFORMATION**

PREPARED BY	DARRYL MANUEL / PRESIDENT
COMPANY:	VEXCON CHEMICALS, INC.
ADDRESS:	7240 STATE RD., PHILA., PA 19135 USA
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE. VEXCON PROVIDES NO WARRANTIES, EXPRESSED OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.	

**HMIS HAZARD RATINGS:**

THIS INFORMATION IS FOR PEOPLE TRAINED IN:  
NATIONAL PAINT AND COATINGS ASSOCIATIONS (NPCA)  
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)  
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704)  
IDENTIFICATION OF FIRE HAZARDS OF MATERIALS

**KEY**

4 -- SEVERE

CERTI-VEX PATCH UW	NPCA-HMIS	NFPA 704	
			3 -- SERIOUS
<b>HEALTH</b>	<b>2</b>	<b>2</b>	2 -- MODERATE
<b>FLAMMABILITY</b>	<b>0</b>	<b>0</b>	1 -- SLIGHT
<b>REACTIVITY</b>	<b>0</b>	<b>0</b>	0 -- MINIMAL