



HAZARD RATING

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

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

MATERIAL SAFETY DATA SHEET
VEXCON NO. CC101

GENERAL INFORMATION

PRODUCT IDENTIFICATION: CERTI-VEX ENVIO® CURE WHITE #100, #500 and #1000
VOC CONTENT: 100- 106 G./LITER OR 0.88 #/GAL, 500- 179 G./LITER OR 1.49 #/GAL, 1000- 140 G./LITER OR 1.17 #/GAL
CATEGORY: CURE
COMMON NAME: HYDROCARBON POLYMER EMULSION WITH PIGMENTS
DOT SHIPPING NAME: IN CONTAINERS LESS THAN 119 GALS AND CONTAINERS GREATER THAN 119 GALS: CERTI-VEX ENVIO CURE WHITE (NON-REGULATED)
HEALTH AND SAFETY: THIS PRODUCT IS AN ORGANIC LIQUID AND WATER EMULSION. PER NFPA 30 THIS MIXTURE WITH A FLASH POINT GREATER THAN 200 F IS A CLASS III B COMBUSTIBLE LIQUID. ALL PRECAUTIONS PROVIDED ARE FOR THE ORGANIC LIQUID PORTION OF WHICH THIS PRODUCT MAY CONTAIN AS LITTLE AS 5%. USE WITH ADEQUATE VENTILATION. DO NOT INDUCE VOMITING IF SWALLOWED. USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE CLOTHING IS ADVISED WHEN HANDLING THIS PRODUCT. KEEP FROM FREEZING.

SECTION I

MANUFACTURER: VEXCON CHEMICALS
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PREPARED: DECEMBER 1998
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PREPARED BY: DARRYL F. MANUEL/PRESIDENT

SECTION II HAZARDOUS INGREDIENTS

<u>MATERIAL OR COMPONENTS</u>	<u>CAS. NO.</u>	<u>%</u>	<u>HAZARD DATA</u>	<u>UN#</u>
PIGMENTS:				
1. TITANIUM DIOXIDE	13463-67-7	3%	RESPIRABLE DUST 10 mg/M3 FOR DUST	
2. CALCIUM CARBONATE	1317-65-3	10-17%	SAME AS ABOVE	
HYDROCARBON POLYMER	68527-25-3	10-20%	(total dust) SAME AS ABOVE	
STODDARD SOLVENT	8052-41-	5-7%	TLV 100 ppm	1255
EMULSIFIERS/ADDITIVES		3%	ND	
WATER		50-64%	NA	
THIS PRODUCT DOES INCLUDE SECTION 313 REPORTABLE INGREDIENTS				

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 760 mm Hg: AZEOTROPE MS+WATER 200°F
MELTING POINT: N/A **SPECIFIC GRAVITY (H2O=1):** 1.09
VAPOR PRESSURE: 200 mm Hg. **VAPOR DENSITY (AIR=1):** HEAVIER THAN
EVAPORATION RATE (BUOH=1): SLOWER
ETHER =1): LESS THAN ETHER
APPEARANCE AND ODOR: WHITE PAINT LIKE LIQUID EMULSION

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: (TEST METHOD): >200°F TCC
AUTOIGNITION TEMPERATURE: ND
FLAMMABLE LIMITS IN AIR: % BY VOL: ND
LOWER: ND **UPPER:** ND
PH (AS IS): 9-10 PH (1% SOLN): 8.5-9
UNUSUAL FIRE AND EXPLOSION HAZARD
PRODUCT WILL BURN IF TEMPERATURE EXCEEDS BOILING POINT. POLYMER FILM IS CAPABLE OF BURNING, GIVING OFF OXIDES OF CARBON.

SECTION V REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: PRODUCT IS STABLE
INCOMPATIBILITY: THIS PRODUCT IS INCOMPATIBLE WITH STRONG ACIDS OR BASES AND SELECTED AMINES. HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE.
CONDITIONS CONTRIBUTING TO HAZARD POLYMERIZATION: N/A WILL NOT OCCUR.

SECTION VI HEALTH HAZARD INFORMATION

ROUTES OF EXPOSURE:
INHALATION: INHALATION OF HIGH VAPOR CONCENTRATIONS MAY HAVE RESULTS RANGING FROM DIZZINESS AND HEADACHES TO UNCONSCIOUSNESS.
SKIN CONTACT: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
SKIN ABSORPTION: SEE ABOVE
EYE CONTACT: THIS PRODUCT MAY BE AN EYE IRRITANT
INGESTION/INHALATION: TLV 50-100 PPM ESTIMATED FROM SIMILAR PRODUCTS
NOTE: THE THRESHOLD LIMIT VALUE (TLV) OF 100 ppm VAPOR IN AIR HAS BEEN ESTABLISHED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS FOR STODDARD SOLVENT AND IS THUS APPLICABLE TO MINERAL SPIRITS IN A RECENT STUDY OF EXXON CORP. MEDICAL RESEARCH WITH LABORATORY ANIMALS (RATS) EXPOSED TO VAPORS IN AIR OF A SOLVENT SIMILAR TO MINERAL SPIRITS

KIDNEY DAMAGE WAS NOTED IN MALE RATS AT THIS CONCENTRATION. THE RECENT STUDY SUGGESTS THAT THIS OCCUPATIONAL EXPOSURE LIMIT MAY HAVE TO BE LOWERED FOR THIS PRODUCT. WORK IS CONTINUING TO VALIDATE THESE FINDINGS AND WHETHER A REVISED OCCUPATIONAL EXPOSURE LIMIT SHOULD BE RECOMMENDED FOR MINERAL SPIRITS.

EFFECTS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE: ANESTHESIA, HEADACHES, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES. PROLONGED CONTACT ON THE SKIN WILL CLAY AND DEFAT THE SKIN POSSIBLY CAUSING DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN.

SKIN: IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

AQUATIC TOXICITY (E.G. 96 HR. TLM):

WASTE DISPOSAL METHOD: TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA OR STATE REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT, TYPICALLY, CONTROLLED BURNING, INCINERATING OR APPROVED LAND FILL SITES ARE AVAILABLE.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR

SPILLED: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES, INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEANUP IS COMPLETE STOP SPILL AT SOURCE. DIKE SPILL AREA TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVEL INTO CONTAINERS.

SECTION VIII CONTROL MEASURES

VENTILATION REQUIREMENTS: LOCAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR CONCENTRATIONS WITHIN SPECIFIED TIME-WEIGHTED TLV RANGES. IF LOCAL VENTILATION PROVES INADEQUATE TO MAINTAIN SAFE VAPOR CONCENTRATIONS, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. OTHER SPECIAL PRECAUTIONS SUCH AS RESPIRATORY MASKS OR ENVIRONMENTAL CONTAINMENT DEVICES MAY BE REQUIRED IN EXTREME CASES. RESPIRATORY (SPECIFY IN DETAIL) :CHEMICAL CARTRIDGE RESPIRATOR; HALF MASK ORGANIC VAPOR CARTRIDGE IF EYE PROTECTION IS NEEDED.

EYES: CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION, OR INJURY.

GLOVES: IMPERVIOUS GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR PVA

OTHER CLOTHING AND EQUIPMENT: TO PREVENT BODY CONTACT, IMPERVIOUS CLOTHING AND BOOTS ARE RECOMMENDED. IMPERVIOUS APRONS ARE A RECOMMENDATION WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS: 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 RE-USE. 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.

OTHER HANDLING AND STORAGE REQUIREMENTS: STORE IN WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH FEDERAL REGULATIONS. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREA WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. KEEP AWAY FROM HIGH TEMPERATURES, OPEN FLAMES, SPARKS ETC. USE WITH EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

HMS HAZARD RATINGS:

	NPCA-HMIS	NFPA 704	KEY
HEALTH	1	1	4=SEVERE
FLAMMABILITY	1	1	3=SERIOUS
REACTIVITY	0	0	2=MODERATE
			1=SLIGHT
			0=MINIMAL

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

FEDERAL:

FDA:

USDA:

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

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