

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

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>REACTIVITY</b>	<b>1</b>


SAETY DATA SHEET  
 VEXCON NO. PS107  
**CERTI-VEX GUARD CACS**

**SECTION I - GENERAL INFORMATION**

<b>PRODUCT IDENTIFICATION:</b> <b>CERTI-VEX GUARD CHEMICALLY ACTIVE CONCRETE STAIN (CACS)</b>	
<b>VOC CONTENT:</b>	<400 GRAMS/LITER OR <3.36 #/GAL
<b>CATEGORY:</b>	WATERPROOFING CONCRETE/MASONRY SEALER
<b>COMMON NAME:</b>	SILANE POLYMER
<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>	MAY 1998
<b>UPDATED:</b>	MAY 2020
<b>PREPARED BY:</b>	DARRY F. MANUEL , PRESIDENT

**SECTION II – HAZARD IDENTIFICATION**




**CLASSIFICATION OF MIXTURE**  
 FLAMMABLE LIQUIDS – CATEGORY 2  
 ACUTE TOXICITY; INHALATION – CATEGORY 4  
 SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY – SINGLE EXPOSURE – CATEGORY 3  
 ACUTE AQUATIC TOXICITY – CATEGORY 3



**SINGLE WORD: DANGER**

**HAZARD STATEMENT:** HIGHLY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. HARMFUL TO AQUATIC LIFE.

**PRECAUTIONARY STATEMENT FLAMMABLE LIQUID:** KEEP AWAY FOR HEAT/SPARKS/ OPEN FLAMES/HOT SURFACES- NO SMOKING. USE ONLY WITH ADEQUATE VENTILATION: IF SWALLOWED, DO NOT INDUCE VOMITING: USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE EQUIPMENT IS ADVISED WHEN HANDLING THIS PRODUCT: ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL: USE OF RESPIRATORS IS ADVISED WHEN USING PRODUCT IN CONFINED AREA.

**SECTION III HAZARDOUS INGREDIENTS**

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
SILANE POLYMER	68554-66-5	35-45%	ND	none
TERTIARY BUTYL ACETATE	540-88-5	30-50%	OSHA HAZARD: FLAMMABLE LIQUID OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	1123
STODDARD SOLVENT	8052-41-3	1-5%	ACGIH TLV: 100 ppm, 525 mg/m3 (TWA) OSHA PEL: 500 ppm, 2900 mg/m3 (TWA) NIOSH REL: 350 mg/m3 (TWA)	1255

PIGMENTS (2)				
1. TITANIUM DIOXIDE	13463-67-7	1-5%	OSHA PEL 15 mg/m3 (TWA) ACGIH TLV 10 mg/m3 (TWA)	none
2. CALCIUM CARBONATE	1317-65-3	15-25%	OSHA TWA 5.0 mg/m3 RESP. OSHA TWA 15.0 mg/m3 TOTAL	none
THIS PRODUCT DOES NOT CONTAIN ANY SECTION 313 REPORTABLE INGREDIENTS.				

**SECTION IV FIRST AID MEASURES**

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

ROUTES OF EXPOSURE:	
<b>INHALATION:</b>	THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION. STODDARD SOLVENT AND TERTIARY BUTYL ACETATE COMPONENTS.
<b>SKIN CONTACT:</b>	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. STODDARD SOLVENT AND TERTIARY BUTYL ACETATE COMPONENTS.
<b>SKIN ABSORPTION:</b>	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. STODDARD SOLVENT AND TERTIARY BUTYL ACETATE COMPONENTS.
<b>EYE CONTACT:</b>	THIS PRODUCT MAY BE AN EYE IRRITANT.
<b>INGESTION / INHALATION</b>	SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION, OR FROM VOMITING, MAY CAUSE BRONCHOPNEUMONIA OR PULMONARY EDEMA. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>EFFECTS OF OVEREXPOSURE:</b>	TLV 50 ppm. STODDARD SOLVENT AND TERTIARY BUTYL ACETATE COMPONENTS. ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.
<b>ACUTE OVEREXPOSURE:</b>	ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS: MODERATE IRRITATION BY LIQUID TO SKIN AND EYES. PROLONGED CONTACT ON THE SKIN WILL CLAY AND DEFAT THE SKIN POSSIBLY CAUSING DERMATITIS.

**EMERGENCY AND FIRST AID PROCEDURES:**

<b>EYES:</b>	FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>SKIN:</b>	WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
<b>INHALATION:</b>	MOVE TO LOCATION FREE FROM VAPORS. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION. <b>NOTE: THIS MATERIAL RELEASES METHYL ALCOHOL UPON HYDROLYSIS. METHYL ALCOHOL CAUSES OPTIC NEUROPATHY, METABOLIC ACIDOSIS AND RESPIRATORY DEPRESSION. SIGNS AND SYMPTOMS OF OVEREXPOSURE INCLUDE HEADACHE, BLURRED VISION, CONSTRICTED VISUAL FIELDS, SHORTNESS OF BREATH, DIZZINESS AND VERTIGO. INGESTION OF METHYL ALCOHOL MAY LEAD TO BLINDNESS OR DEATH.</b>
<b>INGESTION:</b>	DO NOT INDUCE VOMITING; SEEK IMMEDIATE MEDICAL ATTENTION.

**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. AVOID SPRAYING WATER DIRECTLY INTO STORAGE CONTAINERS DUE TO DANGER OF BOIL OVER.
<b>GENERAL HAZARD:</b>	<b>FLAMMABLE LIQUID</b> - CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASH POINT. <b>STATIC DISCHARGE</b> - MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE. <b>"EMPTY" CONTAINERS</b> RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.
<b>ELECTRO-STATIC ACCUMULATION HAZARD:</b>	<b>USE PROPER GROUNDING</b>
<b>UNUSUAL FIRE AND EXPLOSION HAZARD:</b>	IF STORAGE CONTAINERS ARE EXPOSED TO EXCESSIVE HEAT, <b>OVER PRESSURIZATION</b> OF THE CONTAINERS CAN RESULT. <b>VAPOR IS HEAVIER THAN AIR</b> AND MAY TRAVEL ALONG THE GROUND OR THROUGH VENTILATION SYSTEM CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. KEEP WORK AREAS <b>FREE OF HOT METAL</b> SURFACES AND OTHER SOURCES OF IGNITION.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	THE USE OF <b>SELF-CONTAINED BREATHING APPARATUS</b> WITH FULL FACE PIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE SHOULD BE PROVIDED FOR FIRE FIGHTERS IN BUILDINGS OR CONFINED AREAS WHERE THIS PRODUCT IS STORED. STORAGE CONTAINERS EXPOSED TO FIRE SHOULD BE KEPT COOL WITH WATER SPRAY IN ORDER TO PREVENT PRESSURE BUILD UP. USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. ISOLATE "FUEL" SUPPLY FROM FIRE. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

**SECTION VI ACCIDENTAL RELEASE MEASURES**

<p><b>STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:</b>  <b>LAND SPILL:</b> ELIMINATE SOURCES OF IGNITION. PREVENT ADDITIONAL DISCHARGE OF MATERIAL; IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR SMALL SPILLS, IMPLEMENT CLEANUP PROCEDURES. FOR LARGE SPILL, IMPLEMENT CLEAN UP PROCEDURES AND, IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. ALSO, IF THIS PRODUCT IS SUBJECT TO CERCLA REPORTING NOTIFY THE NATIONAL RESPONSE CENTER. PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES, OR LOW AREAS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. RECOVER BY PUMPING (USE AN EXPLOSION PROOF OR HAND PUMP) OR WITH A SUITABLE ABSORBENT. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.  <b>WATER SPILL:</b> REMOVE FROM SURFACE BY SKIMMING OR WITH SUITABLE ABSORBENTS. IF ALLOWED BY LOCAL AUTHORITIES AND ENVIRONMENTAL AGENCIES, SINKING AND/OR SUITABLE DISPERSANTS MAY BE USED IN NON-CONFINED WATERS. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.</p>
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**SECTION VII HANDLING AND STORAGE**

<p><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</p>
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<p>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 AND USE IN WELL VENTILATED AREA, EQUIVALENT TO FRESH AIR. 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. KEEP AWAY FROM HIGH TEMPERATURES, OPEN FLAMES, SPARKS, SOURCES OF IGNITION, ETC. USE WITH EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.</p>
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**SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION**

<p><b>VENTILATION REQUIREMENTS:</b> 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.  <b>RESPIRATORY (SPECIFY IN DETAIL):</b> THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE THE TIME WEIGHTED TLV: USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIRPACK. CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR CARTRIDGE: FULL FACE ORGANIC VAPOR CARTRIDGE IF EYE PROTECTION IS NEEDED.  <b>EYE:</b> CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.  <b>GLOVES:</b> THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. 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. IMPERVIOUS APRONS AND HELMETS (HEAD COVER) ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.</p>
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**SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>BOILING POINT: (760mmHg)</b> <b>98 C / 208 F (TBAc)</b>	<b>MELTING/FREEZING POINT:</b> -62 C / 79 F (TBAc)
<b>VAPOR PRESSURE:</b> 41.5 mmHg@68°F/25°C (TBAc)	<b>VAPOR DENSITY (AIR=1):</b> 4.0 (TBAc)
<b>SOLUBILITY IN H2O % BY WT:</b> INSOLUBLE	<b>% VOLATILES BY VOL:</b> 50-70%
<b>EVAPORATION RATE (BuAc=1):</b> 2.8 MEDIUM RATE (TBAc)	<b>SPECIFIC GRAVITY (H2O=1)</b> 0.972
<b>pH (AS IS):</b> N/A	<b>pH (1% SOLN):</b> N/A
<b>APPEARANCE AND ODOR:</b> VARIOUS COLORS, LIQUID WITH SLIGHTLY SWEET PAINT SOLVENT ODOR	
<b>FLASH POINT:</b> (TEST METHOD)	<b>4°C / 39°F (TCC) (TBAc)</b>
<b>AUTOIGNITION TEMP:</b>	517°C / 964°F (TBAc)
<b>FLAMMABLE LIMITS IN AIR, % BY VOL:</b>	LOWER: 1.2% UPPER: 6.9% (TBAc)

**SECTION X STABILITY AND REACTIVITY**

<b>CONDITIONS CONTRIBUTING TO INSTABILITY:</b>	THIS PRODUCT IS STABLE.
<b>INCOMPATIBILITY:</b>	THIS PRODUCT IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS OR BASES, AND SELECTED AMINES.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	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>ACUTE TOXICITY</b>	LC50 (VAPOR)	RAT	4211 ppm	6 HOURS
	LD50 (ORAL)	RAT	4500 MG/KG BWT	
	LD50	RABBIT	>2000 ,G/KG BWT	
<b>ACUTE EFFECTS</b>	INHALATION		VAPORS OR AEROSOL MAY CAUSE IRRITATION OF THE EYES, NOSE AND THROAT AS WELL AS CNS DEPRESSION (FATIGUE, DIZZINES, LOSS OF CONCENTRATION, WITH COLLAPSE, COMA AND DEATH POSSIBLE IN CASES OF SEVERE OVER EXPOSURE), INHALATION OF AIRBORNE DROPLETS MAY CAUSE IRRITATIONS OF THE RESPIRATORY TRACT.	
	INGESTION		MAY CAUSE CNS DEPRSSION, GASTRIC DSCOMFORT, AND VOMITING. THIS MATERIAL IS AN ASPIRATION HAZARD.	
	SKIN CONTACT		NO SYSTEMIC TOXICITY IS EXPECTED FROM ACUTE DERMAL EXPOSURE	
<b>IRRITATION</b>	SKIN		NOT A SKIN IRRITANT	
	EYES		NO EYE IRRITATION	
<b>SENSITIZATION</b>	DOES NOT INDUCE SKIN SENSITIZATION.			
<b>REPEATED DOES TOXICITY</b>	INHALATION REPEATED EXPOSURE STUDIES DEMONSTRATED TARGET ORGAN EFFECTS IN MALE RATS (KINDEY) BY MECHANISM OF ACTION THAT IS NOT RELEVANT TO HUMAS NAD IN MICE (NERVOUS SYTEM) TRANSIENT BEHAVIOR CHANGES THAT WERE OBSERVED IMMEDIATELY AFTER EXPOSURE.			
<b>REPRODUCTIVE EFFEXTE</b>	THIS SUBSTANCE IS NOT TOXIT TO REPRODUCTION. THE REPRODUCTIVE TOXICITY OF T-BUTYL ACETATE HAS BEEN INVESTAGATED IN RATS VIA A INHALATION ROUTE. THERE WERE NO ADVERSE EFFECTS ON REPRODUCTIVE PERFORMANCE OR SPERM NUMVER OR UALITY AT 1600 ppm; THE HIGHEST EXPOSURE LEVEL TESTED. IN ADDITION, NO GROSS OR HISTOPATHOLOGIC EFFECTS WERE OBSERVED IN THE REPRODUCTIVE ORGANS OF MALE AND FEMALE RATS OR MICE EXPOSED AT 1600 ppm FOR 90 DAYS IN A REPEATED EXPOSURE TOXICITY STUDY CONDUCTED VIA INHALATION AND THERE WAS NO ADVERSE EFFECTS ON ESTROUS CYCLE LENGTH IN MICE.			
<b>DEVELOPMENTAL TOXICITY</b>	THIS SUBSTANCE IS NOT A DEVELOPMENTAL TOXICANT. IT DID NOT CAUSE MATERNAL TOXICITY AND NO EMBRO/FETAL TOXICITY OR DEVELOPENTA ABNORMALITIES WERE OBSERVED IN THE OFF SPRINF OF ANIMALS FOLLOWING INHALATION EXPOSURES OF 1600 ppm.			
<b>GENETIS TOXICITY</b>	NEGATICE FOR GENOTOXICITY USING BOTH IN VITRO AND IN VIVO TEST.			
<b>GARCINOGENICITY</b>	SPECIFIC DATA NOT AVAILABLE. T-BUTANOL, THE PRIMARY METABOLITE OF T-BUTYL ACETATE IS AN ANAMAL CARCINOGEN. IN DRINKING WATER STUDY, T-BUTANOL INDUCED BEGIGN KIDNEY TUMORS IN MALE RATS VIA AN a-2u-GLOBULIN MODE OF ACTION, A TUMOR MECHANISM NOT RELEVANT TO HUMANS. IN FEMAL MICE, THERE WAS AN INCREASE INCIDENCE OF BEGIGN THYROID TUMORS, A TUMOR MECHANISM THAT MOST LIKELY IS NOT RELEVANT TO HUMAND. THIS SUBSTANCE IS NOT CLASSIIIFIED FOR CARCINOGENICITY BY IARC, OSHA, NTP OR THE EPA.			

**SECTION XII ECOLOGICAL INFORMATION**

<b>ECOTOXICITY</b>	<b>ACUTE FISH TOXICITY</b>	LC50/96 HOURS	ONCORHYNCHUS MYKISS 240 mg/l	ACUTE TOSICITY TO FISH IS LOW	
	<b>ACUTE TOXICITY TO AQUATIC INVERTEBRATES</b>	EC50/48 HOURS	DAPHNIA MAGNE 350 mg/l	LOW ACUTE TOXICITY TO AQUATIC INVERTEBRATES	
	<b>TOXICITY TO AQUATIC PLANTS</b>	EC/5096 HOURS	PSEUDOKIRC HNERIELLA SUBCAPITATA 60 mg/l	LOW TOXICITY TO ALGAE	
	<b>TOXICITY TO MICROORGANIS MS</b>	EC3/16 HOURS	PSEUDOMONAS PUTIDA 78 mg/l	LOW TOXICITY TO BACTERIA	
		EC3/72 HOURS	ENTOSPIHON SULCATUM 970 mg/l		
	<b>CHRONIC TOXICITY TO FISH</b>	NO DATA AVAILABLE			
	<b>CHRONIC TOXICITY TO AQUATIC INVERTEBRATES</b>	NON DATA AVAILABLE			
<b>OTHER ADVRSE EFFECTS</b>	EXPECTED TO SHOW LOW TOXICITY TO HIGHER PLANTS				
<b>ENVIRONMENT AL FATE AND PATHWAYS</b>	EXPECTED TO BE EMMITTED AND PARTITION PREDOMINANTLY TO THE ATMOSPHERE. ACCIDENTAL RELEASES TO WATER OR SOIL ARE EXPECTED TO EVAPORATED AND UNDERGO ATMOSPHERIC DECOMPOSITION PROCESSES.				
	<b>MOBILITY</b>	BEHAVIOR IN ENVIRONMENTAL COMPARTMENTS; RELEASED MATERIAL WOULD BE EXPECTED TO SHOW HIGH SOIL MOBILITY AND TO VOLATILIZE READILY FORM SOIL NAD SURFACE WATERS, FORMING ATMOSPHERIC VAPOR.			
	<b>PERSISTENCE AND DEGRADABILITY</b>	BIODEGRADATION: EXPECTED TO HYDROLYZE SLOWLY IN WATER (HALF-LIFE CA 0.5 YEARS OR LONGER). ATMOSPHERIC VAPORS EXPECTED TO BE PHOTOCHEMICALLY DEGRADED BY REACTION WITH HYDROXYL RADICALS (HALS LIKE 19.7 DAYS). INHERENTLY BIODEGRADABLE.			
		BIOACCUMULATION: BIOCONCENTRATION FACTOR (BCF) 5.61 ( (QSAR CALCULATED VALUE) ) THIS MATERIAL IS NOT EXPECTED TO BIOACCUMULATE.			
	<b>OTHE ADVERSE EFFECTS</b>	THIS MATERIAL IS NOT CONSIDERED PERSISTENT BY EPA, AND IS NOT EXPECTED TO CONTRIBUTE TO THE GREENHOUSE GAS EFFECT, STRATOSPHERIC OZONE DEPLETION. TROPOSPHERIC OZONE FORMATION, OR PARTICULATE MATTER FORMATION.			

**SECTION XIII DISPOSAL CONSIDERATIONS**

<b>AQUATIC TOXICITY (E.G. 96 HR. TLM):</b> 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).
<b>WASTE DISPOSAL METHOD:</b> IF POSSIBLE, PUMP TO CONTROLLED CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN COMPLIANCE WITH EPA, FEDERAL, STATE, AND LOCAL REGULATIONS. TREATMENT TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA FEDERAL, STATE, AND LOCAL REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT (RCRA, 40 CFR 261). TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LAND FILL SITES ARE AVAILABLE.

**SECTION XIV TRANSPORTATION INFORMATION**

Governing Body	Mode	UN Number	Proper Shipping Name	Hazard Class	Packing Group	Quantity Limitation
DOT	GROUND	1866	RESIN SOLUTION	3,	II	ORMD – Max 30Kg gross wt (66lbs)
IATA	AIR	1866	RESIN SOLUTION	3,	II	Passenger Aircraft - 5L Cargo Aircraft - 60L
IMDG	OCEAN	1866	RESIN SOLUTION	3,	II	
<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**

<b>TSCA:</b> THE SOLVENT PORTION OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AS A UVCB (UNKNOWN, VARIABLE COMPOSITION OR BIOLOGICAL) CHEMICAL AT CAS REGISTRY NUMBER OR 540-88-5 (tertiary butyl acetate).
<b>CERCLA:</b> 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. <b>THE REPORTABLE SPILL QUANTITY (RQ) OF THIS PRODUCT IS 5,000 POUNDS (BUTYL ACETATE).</b>
<b>SARA TITLE III:</b> 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: DELAYED HEALTH, FIRE
<b>ADDITIONAL REGULATORY CONCERNS:</b> (FEDERAL, FDA, USDA, CPSC, STATE, OTHER) FEDERAL / FDA / USDA:
<b>MARINE POLLUTANTS:</b> THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B). SEE SECTION XIV
<b>CERCLA / RQ: 5000 POUNDS (BUTYL ACETATE)</b> THIS PRODUCT CONTAINS A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A): BUTYL ACETATE,
<b>TSCA:</b> IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? <b>YES</b>

**SECTION XVI OTHER INFORMATION**

PREPARED BY	DARRYL MANUEL / PRESIDENT
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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.	

<b>HMIS HAZARD RATINGS:</b> 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			<b>KEY</b> 4 -- SEVERE
<b>CERTI-VEX GUARD CACS</b>	<b>NPCA-HMIS</b>	<b>NFPA 704</b>	3 -- SERIOUS
<b>HEALTH</b>	<b>2</b>	<b>2</b>	2 -- MODERATE
<b>FLAMMABILITY</b>	<b>3</b>	<b>3</b>	1 -- SLIGHT
<b>REACTIVITY</b>	<b>1</b>	<b>1</b>	0 -- MINIMAL