



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

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>REACTIVITY</b>	<b>0</b>

SAFETY DATA SHEET  
VEXCON NO. PS135  
**CERTI-VEX PENSEAL CT**

**SECTION I - GENERAL INFORMATION**

<b>PRODUCT IDENTIFICATION:</b> CERTI-VEX PENSEAL CT	
<b>VOC CONTENT:</b>	<250 GRAMS/LITER OR <2.09 #/GAL
<b>CATEGORY:</b>	WATERPROOFING CONCRETE/MASONRY SEALER
<b>COMMON NAME:</b>	SILANE WATER PROOFER
<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>	JUNE 2013
<b>UPDATED:</b>	JUNE 2018
<b>PREPARED BY:</b>	DARRY F. MANUEL , PRESIDENT

**SECTION II - HAZARD IDENTIFICATION**

**CLASSIFICATION OF MIXTURE**

FLAMMABLE LIQUID – CATEGORY 3  
ACUTE TOXICITY (ORAL) – CATEGORY 4  
ACUTE TOXICITY (INHALATION) – CATEGORY 3  
ACUTE TOXICITY – (DERMAL) – CATEGORY 3  
SKIN/CORROSION/IRRITATION - CATEGORY 2  
SERIOUS EYE DAMAGE/EYE IRRITATION – CATEGORY 2B

**SIGNAL WORD:** DANGER

**HAZARD STATEMENT:** FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION CAUSES SERIOUS EYE IRRITATION.

**PRECAUTIONARY STATEMENTS:** KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES – NO SMOKING. EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN OR RESPIRATORY IRRITATION. 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.



**SECTION III HAZARDOUS INGREDIENTS**

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
OCTYLTRITHOXYSILANE	2943-75-1	90-100%	NONE	1993
DIETHYL ETHANOLAMINE	100-37-8	5-10%	ACGIH TLV: 2 ppm NOISH REL: 10 ppm, 50 mg/m3 OSHA Z1 10ppm, 50 mg/m3	2686
RELATED SILOXANES AND SILANE ESTERS	NONE	1-10	NOT ESTABLISHED	N/A
ETHYL ALCOHOL	64-17-5	<1%	OSHA PEL 1000 ppm TWA ACGIH TLV 1000 ppm TWA	

Ethyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL and ACGIH TLV: TWA 1000 ppm.

**SECTION IV FIRST AID MEASURES**

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

**ROUTES OF EXPOSURE:**

<b>INHALATION:</b>	THIS PRODUCT MAY MAY IRRITATE RESPIRATORY PASSAGES VERY SLIGHTLY. SILANE AND ETHANOL COMPONENTS.
<b>SKIN CONTACT:</b>	THIS PRODUCT MAY CAUSE MODERATE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. SILANE AND ETHANOL COMPONENTS.
<b>SKIN ABSORPTION:</b>	THIS PRODUCT MAY CAUSE MODERATE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. SILANE AND ETHANOL COMPONENTS.
<b>EYE CONTACT:</b>	THIS PRODUCT MAY BE AN EYE IRRITANT. DIRECT CONTACT MAY CAUSE MILD IRRITATION. SILANE AND ETHANOL COMPONENTS.
<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. OVEREXPOSURE BY INGESTION MAY CAUSE DROWSINESS, DIZZINESS, CONFUSION, OR LOSS OF COORDINATION.
<b>EFFECTS OF OVEREXPOSURE:</b>	<b>TLV 1000 ppm ETHYL ALCOHOL</b> NO KNOWN APPLICABLE INFORMATION. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.
<b>ACUTE OVEREXPOSURE:</b>	MODERATE IRRITATION BY LIQUID TO SKIN AND EYES. OVEREXPOSURE BY INGESTION MAY INJURE THE FOLLOWING ORGAN(S): NERVOUS SYSTEM, BRAIN.

**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 FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
<b>INHALATION:</b>	MOVE TO LOCATION FREE FROM VAPORS. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.  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>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>COMBUSTIBLE 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>	<u>USE PROPER GROUNDING</u>
<b>UNUSUAL FIRE AND EXPLOSION HAZARD:</b>	<p><b>FLAMMABLE VAPORS MAY ACCUMULATE IN THE CONTAINER HEADSPACE ON FORMATION OF HYDROLYSIS BY-PRODUCTS.</b></p> <p>IF STORAGE CONTAINERS ARE EXPOSED TO EXCESSIVE HEAT, <b>OVER PRESSURIZATION</b> OF THE CONTAINERS CAN RESULT.</p> <p><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.</p> <p>KEEP WORK AREAS <b>FREE OF HOT METAL</b> SURFACES AND OTHER SOURCES OF IGNITION.</p>
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	<p>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.</p>

### SECTION VI ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

**LAND SPILL:** 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.

**WATER SPILL:** 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.

### SECTION VII HANDLING AND STORAGE

**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 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.

**FIRE FIGHTING:** 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.

**OTHER HANDLING AND STORAGE REQUIREMENTS:** 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.

### SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

**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):** THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE THE TIME WEIGHTED TLV: USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIR-PACK. CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR CARTRIDGE. FULL FACE 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:** THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. 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 AND HELMETS (HEAD COVER) ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

### SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS

<b>BOILING POINT:</b> (760mmHg) >65 C / 149 F (Octyltriethoxysilane)	<b>MELTING/FREEZING POINT:</b> N/D
<b>VAPOR PRESSURE:</b> N/D	<b>VAPOR DENSITY (AIR=1):</b> HEAVIER THAN AIR
<b>SOLUBILITY IN H2O % BY WT:</b> N/D	<b>% VOLATILES BY VOL:</b> N/D
<b>EVAPORATION RATE (BuAc=1):</b> N/D	<b>SPECIFIC GRAVITY (H2O=1)</b> 0.875
<b>pH (AS IS):</b> N/D	<b>pH (1% SOLN):</b> N/A
<b>APPEARANCE AND ODOR:</b>	COLORLESS TO PALE YELLOW LIQUID WITH SLIGHT ALCOHOL ODOR
<b>FLASH POINT:</b> (TEST METHOD)	<b>128°F / 53°C (Closed Cup)</b>
<b>AUTOIGNITION TEMP:</b>	N/D
<b>FLAMMABLE LIMITS IN AIR, % BY VOL:</b>	N/D

### SECTION X STABILITY AND REACTIVITY

<b>CONDITIONS CONTRIBUTING TO INSTABILITY:</b>	THIS PRODUCT IS STABLE.
<b>INCOMPATIBILITY:</b>	OXIDIZING MATERIAL CAN CAUSE A REACTION. WATER, MOISTURE, OR HUMID AIR CAN CAUSE HAZARDOUS VAPORS TO FORM (ETHYL ALCOHOL) BY HYDROLYSIS.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON OXIDES AND TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS. SILICON DIOXIDE. FORMALDEHYDE.
<b>CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:</b>	N/A WILL NOT OCCUR

### SECTION XI TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY</b>	ACUTE ORAL TOXICITY	ACUTE TOXICITY ESTIMATE: >5000 mg/kg
		METHOD: CALCULATION METHOD
		LD50 (RAT): >5110 mg/kg
	ACUTE DERMAL TOXICITY	ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE ORAL TOXICITY.
		LD50(RAT): 6730 mg/kg
		ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE DERMAL TOXICITY
	SKI N CORROSION / IRRITATION	REMARKS: BASED ON TEST DATA
		SPECIES: RABBIT
	SERIOUS EYE DAMAGE/ EYE IRRITATION	RESULT: SKIN IRRITATION
		REMARKS: BASED ON TEST DATA
RESPIRATORY OR SKIN SENSITIZATION	SPECIES: RABBIT	
	RESULT: NO EYE IRRITATION	
	REMARKS: BASED ON TEST DATA	
	SKIN SENSITIZATION : MAY CAUSE AN ALLERGIC SKIN REACTION	
	RESPIRATORY SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION	

<b>GERM CELL MUTAGENICITY</b>	NOT CLASSIFIED BASED ON AVAILABLE TEST INFORMATION	
	GENOTOXICITY IN VITRO	TEST TYPE: MUTAGENICITY (IN VITRO MAMMALIAN CYTOGENETIC TEST)
		RESULT: NEGATIVE REMARKS: BASED ON TEST DATA
<b>CARCINOGENICITY</b>	NOT CLASSIFIED BASED ON AVAILABLE INFORMATION	
	IARC	NO INGREDIENT OF THIS PRODUCT PERCENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.
	OSHA	NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA
	NTP	NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS KNOWN OR ANTICIPATED CARCINOGEN BY NTP
<b>REPRODUCTIVE TOXICITY</b>	NOT CLASSIFIED BASED ON AVAILABLE INFORMATION	
	EFFECTS ON FERTILITY	TEST TYPE: COMBINED REPEATED DOSE TOXICITY STUDY WITH THE REPRODUCTION/DEVELOPMENTAL TOXICITY SCREENING TEST
		SPECIES: RAT MALE AND FEMALE
		APPLICATION ROUTE: INGESTION
		SYMPTOMS: NO EFFECTS ON FERTILITY REMARKS: BASED ON TEST DATA
	EFFECTS ON FETAL DEVELOPMENT	TEST TYPE COMBINED REPEATED DOSE TOXICITY STUDY WITH THE REPRODUCTION /DEVELOPMENTAL TOXICITY SCREENING TEST
		SPECIES: RAT MALE AND FEMALE
		APPLICATION ROUTE: INGESTION
		SYMPTOMS: NO EFFECTS ON FETAL DEVELOPMENT REMARKS: BASED ON TEST DATA
	REPRODUCTIVE TOXICITY – ASSESSMENT	NO EVIDENCE OF ADVERSE EFFECTS ON SEXUAL FUNCTION OR FERTILITY OR ON DEVELOPMENT, BASED ON ANIMAL EXPERIMENTS.
<b>STOT- SINGLE EXPOSURE</b>	NOT CLASSIFIED BASED ON AVAILABLE INFORMATION	ROUTES OF EXPOSURE : INGESTION
<b>STOS- REPEATED EXPOSURE</b>	NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.	ASSESSMENT: NO SIGNIFICANT HEALTH EFFECTS OBSERVED IN ANIMALS AT CONCENTRATIONS OF 100 mg/kg BW OR LESS
	REPEATED DOSE TOXICITY	SPECIES: RAT APPLICATION ROUTE: INGESTION REMARKS: BASED ON TEST DATA
<b>ASPIRATION TOXICITY</b>	NOT CLASSIFIED BASED ON AVAILABLE INFORMATION	
<b>REMARKS:</b> FINDINGS FROM A COMBINED REPEATED-DOSE TOXICITY STUDY WITH REPRODUCTIVE/DEVELOPMENTAL SCREENING ENDPOINTS ON n-OCTYLTRIETHOXYSILANE HAVE SHOWN NEUROLOGICAL EFFECTS IN RATS AT HIGH DOSES (1000 mg/kg). PARALYSIS AND PARESIS OF THE LIMBS AND DEMYELINATION OF THE BRAIN, SPINAL CORD, SCIATIC AND TIBIAL NERVES WAS NOTED IN SOME ANIMALS.		

**SECTION XII ECOLOGICAL INFORMATION**

<b>ECOTOXICITY</b>	TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES	EC50 (DAPHNIA SP): >0.049 mg/L
		EXPOSURE TIME: 48 HRS. METHOD: OECD TEST GUIDELINE 202 REMARKS: NO TOXICITY AT THE LIMIT OF SOLUBILITY.
	TOXICITY TO ALGAE	ErC50 (PSEUDOKIRCHNERIELLA SUBCAPITATA (GREEN ALGAE)): >0.13 mg/L
		EXPOSURE TIME: 72 HRS METHOD: OECD TEST GUIDELINE 201 REMARKS: NO TOXICITY AT THE LIMIT OF SOLUBILITY.
<b>PERSISTENCE AND DEGRADABILITY</b>	BIODEGRADABILITY	RESULT: NOT READILY BIODEGRADABLE
<b>BIOACCUMULATIVE POTENTIAL</b>	PARTITION COEFFICIENT: n-OCTANOL/WATER	LOG POW: 6.41 METHOD: OECD TEST GUIDELINE 117
<b>MOBILITY IN SOIL</b>	NO DATA AVAILABLE	
<b>OTHER AVERSE EFFECTS</b>	NO DATA AVAILABLE	

**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 (NON-BULK)	NON-REGULATED	NON REGULATED	NON-REGULATED	NON-REGULATED	
IATA	AIR	1993	FLAMMABLE LIQUID N.O.S. (ETHANOL/OCTYLSILANE) (DIETHYL ETHANOLAMINE)	3	III	Passenger Aircraft – 60L Cargo Aircraft – 220L
IMDG	OCEAN	1993	FLAMMABLE LIQUID N.O.S. (ETHANOL/OCTYLSILANE) (DIETHYL ETHANOLAMINE)	3	III	
<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 2943-75-41 (DIETHYL ETHANOLAMINE)
<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>100 POUNDS (DIETHYLETHANOLAMINE)</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: FIRE, ACUTE HEALTH
<b>ADDITIONAL REGULATORY CONCERNS:</b> (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)
FEDERAL / FDA / USDA:
<b>MARINE POLLUTANTS:</b> NO. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B).
<b>CERCLA / RQ:</b> <b>100 POUNDS (DIETHYL ETHANOLAMINE)</b> THIS PRODUCT CONTAINS A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A): DIETHYL ETHANOLAMINE)
<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
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.	

<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>VERTI-VEX PENSEAL CT</b>	<b>NPCA-HMIS</b>	<b>NFPA 704</b>	3 -- SERIOUS
<b>HEALTH</b>	<b>1</b>	<b>1</b>	2 -- MODERATE
<b>FLAMMABILITY</b>	<b>2</b>	<b>2</b>	1 -- SLIGHT
<b>REACTIVITY</b>	<b>0</b>	<b>0</b>	0 -- MINIMAL