

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

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

SAFETY DATA SHEET
 VEXCON NO. OP111
**CERTI-VEX SUPER
 DEGREASER & CLEANER**

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION: CERTI-VEX SUPER DEGREASER & CLEANER	
VOC CONTENT:	0 GR/LITER OR 0#/GAL
CATEGORY:	CONCRETE CLEANER, NO COATING VOC CATEGORY
COMMON NAME:	CONCRETE CLEANER
MANUFACTURER:	VEXCON CHEMICALS, INC
ADDRESS	7240 STATE RD, PHILADELPHIA, PA 19135
EMERGENCY NO:	800.858.2828 (PolySat Inc)
TELEPHONE NO:	215.332.7709 (Vexcon)
CHEMTREC NO:	800.424.9300 (CCN# 23822)
PREPARED:	FEBRUARY 1999
UPDATED:	OCTOBER 2016
PREPARED BY:	DARRY F. MANUEL , PRESIDENT

SECTION II – HAZARD IDENTIFICATION

CLASSIFICATION OF MIXTURE

SKIN CORROSION/IRRITATION – CATEGORY 3
 SERIOUS EYE DAMAGE/EYE IRRITATION – CATEGORY 2B
 SKIN SENSITIZATION – CATEGORY 1
 ASPIRATION TOXICITY – CATEGORY 1
 FLAMMABLE LIQUIDS – CATEGORY 4

SINGLE WORD: WARNING

HAZARD STATEMENT: MAY CAUSE SKIN IRRITATION, MAY CAUSE EE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION, BAY BE FATAL IS SWALLOWED AND ENTERS AIRWAYS.

PRECAUTIONARY STATEMENT: 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 THIS PRODUCT USE WITH ADEQUATE VENTILATION. DO NOT INDUCE VOMITING IF SWALLOWED. USE OF GLOVES, GOGGLES AND OTHER PROTECTIVE CLOTHING IS ADVISED WHEN HANDLING THIS PRODUCT.

KEEP FROM FREEZING



SECTION III HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
PINE OIL	8002-09-3		NOT ESTAB.	1272
PROPYL CELLOSOLVE	2807-30-9		50 ppm PEL 25 ppm TLV	1993
TRIETHANOLAMINE	102-71-6		ACGIH 5 ppm TLV	3259
PERFORMANCE ADDITIVES	N/A		N/D	NONE
WATER	N/A		N/D	NONE

SECTION IV FIRST AID MEASURES

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

ROUTES OF EXPOSURE:

INHALATION:	THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION.
SKIN CONTACT:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
SKIN ABSORPTION:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
EYE CONTACT:	THIS PRODUCT MAY BE AN EYE IRRITANT.
INGESTION / INHALATION	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.
EFFECTS OF OVEREXPOSURE:	TLV 50-100 ppm ESTIMATED FROM SIMILAR PRODUCTS ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.
ACUTE OVEREXPOSURE:	ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS: MODERATEIRRITATION BY LIQUID TO SKIN AND EYES.

EMERGENCY AND FIRST AID PROCEDURES:

EYES:	FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION.
SKIN:	WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
INHALATION:	MOVE TO LOCATION FREE FROM VAPORS. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.
INGESTION:	DO NOT INDUCE VOMITING; SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION V FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY. 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.
GENERAL HAZARD:	"EMPTY" CONTAINERS 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.
ELECTRO-STATIC ACCUMULATION HAZARD:	NOT AN ELECTROSTATIC ACCUMULATION HAZARD. USE PROPER GROUNDING AS NEEDED.

UNUSUAL FIRE AND EXPLOSION HAZARD:	NO UNUSUAL HAZARDS. KEEP WORK AREAS FREE OF HOT METAL SURFACES AND OTHER SOURCES OF IGNITION.
SPECIAL FIRE FIGHTING PROCEDURES	THE USE OF SELF-CONTAINED BREATHING APPARATUS 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.

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

BOILING POINT: (760mmHg) 150°C / 302°F (Propyl Cellosolve)	MELTING/FREEZING POINT: -90°C / -130°F (Propyl Cellosolve)
VAPOR PRESSURE: 1.7 mmHg@68°F/20°C (Propyl Cellosolve)	VAPOR DENSITY (AIR=1): 3.6 (Propyl Cellosolve)
SOLUBILITY IN H2O % BY WT: MISCIBLE	% VOLATILES BY VOL: 66%
EVAPORATION RATE (BuAc=1): SLOW 0.2 (Propyl Cellosolve)	SPECIFIC GRAVITY (H2O=1) 0.98
pH (AS IS): 8 to 8.5 TYPICAL	pH (1% SOLN): 7
APPEARANCE AND ODOR:	MILKY EMULSION WITH SWEET PINE ODOR
FLASH POINT: (TEST METHOD)	>93°C / >200°F (TCC)
AUTOIGNITION TEMP:	235°C / 455°F (Propyl Cellosolve)
FLAMMABLE LIMITS IN AIR, % BY VOL:	LOWER: 1.3% UPPER: 15.8% (Propyl Cellosolve)

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/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 MEDIA BUT HELPFUL IN KEEPING ADJACENT CONTAINERS COOL. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

OTHER HANDLING AND STORAGE REQUIREMENTS: KEEP PRODUCT CONTAINERS COOL, DRY AND AWAY FROM SOURCES OF IGNITION. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION EQUIVALENT TO FRESH AIR. STORE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

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

SECTION X STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY:	THIS PRODUCT IS STABLE.
INCOMPATIBILITY:	THIS PRODUCT IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, 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, AND UNIDENTIFIED ORGANICS.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:	N/A WILL NOT OCCUR

SECTION XI TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY	ACUTE TOXICITY ESTIMATE	DOSE: 4,270.78 mg/kg	METHOD: CALCULATION METHOD
ACUTE ORAL TOXICITY (COMPONENT)	COMPONENT ALPHA TERPINEOL (98-55-5)	LD50-Rat Dose: 4,300 mg/kg	REMARKS: RIFM
	COMPONENT PINE OILS (8002-09-3)	LD50-RAT DOSE: 3,200 mg/kg	REMARKS: RIFM
	COMPONENT DIPENTENE (7705-14-8)	LD50 – RAT DOSE: 5,300 mg/kg	REMARKS: RIFM
	COMPONENT: CAMPHOR (76-22-2)	LD50 – RAT DOSE: >5,000 mg/kg	REMARKS: RIFM
ACUTE DERMAL TOXICITY	ACUTE TOXICITY ESTIMATE	DOSE: 4,545.45 mg/kg	METHOD: CALCULATION METHOD
ACUTE DERMAL TOXICITY (COMPONENT)	COMPONENT: ALPHA TERPINEOL (98-55-5)	LD50 – RABBIT DOSE: >3,000 mg/kg	
	COMPONENT PINE OILS (8002-09-3)	LD50 – RABBIT >5,000 mg/kg	
	COMPONENT DIPENTENE (7705-14-8)	LD50 – RABBIT DOSE: >5,000 mg/kg	
	COMPONENT: CAMPHOR (76-22-2)	LD50 – RABBIT DOSE: >5,000 mg/kg	
ACUTE INHALATION TOXICITY	ACUTE TOXICITY ESTIMATE	DOSE: 366.67 mg/L	METHOD: CALCULATION METHOD

SKIN IRRITATION (COMPONENT)	COMPONENT: ALPHA TERPINEOL (98-55-5)	RABBIT RESULT: SKIN IRRITATION	EXPOSURE TIME: 24HRS.
	COMPONENT: DIPENTENE (7705-14-8)	RABBIT RESULT: SKIN IRRITATION	EXPOSURE TIME: 4HRS. TEST SUBSTANCE: (UNDILUTED)
	COMPONENT: CAMPHOR (76-22-2)	HUMAN RESULT: NO SKIN IRRITATION	METHOD: CLOSED PATCH TEST EXPOSURE TIME: 48 HRS.
SENSITISATION (COMPONENT)	COMPONENT: ALPHA TERPINEOL (98-55-5)	MAXIMISATION TEST GUINES PIG	RESULT: DID NOT CAUSE SENSITIZATION ON LABORATORY ANIMALS
	COMPONENT: DIPENTENE (7705-14-8)	LLNA MOUSE	RESULT: CAUSES SENSITIZATION TEST SUBSTANCE: 22% IN ETHANOL/DEP (75:25)
REPEATED DOSE TOXICITY (COMPONENT)	COMPONENT: ALPHA TERPINEOL (98-55-5)		
	COMPONENT: DIPENTENE (7705-14-8)		

SECTION XII ECOLOGICAL INFORMATION

COMPONENT PINE OILS (8002-09-3)	PINEOIL SD YARMOR/NON FOOD GRADE	THERE IS NO DATA AVAILABLE FOR THIS PRODUCT
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SECTION XIII DISPOSAL CONSIDERATIONS

AQUATIC TOXICITY (E.G. 96 HRS. 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: 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
DOT	GROUND	NON-REGULATED	NON REGULATE D	NON REGULATE D	NA
IATA	AIR	NON REGULATED	NON REGULATE D	NON REGULATE D	NA
IMDG	OCEAN	NON REGULATED	NON REGULATE D	NON REGULATE D	NA
MARINE POLLUTANT:	THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B)				

SECTION XV REGULATORY INFORMATION

TSCA: 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: 8002-09-3 (PINE OIL)
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: DELAYED HEALTH, FIRE
ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER) FEDERAL / FDA / USDA:
MARINE POLLUTANTS: NO. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B).
CALIFORNIA PROP 65: 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 SUPER DEGREASER & CLEANER	NPCA-HMIS	NFPA 704	3 -- SERIOUS
HEALTH	1	1	2 -- MODERATE
FLAMMABILITY	1	1	1 -- SLIGHT
REACTIVITY	0	0	0 -- MINIMAL