

**HAZARD RATING**

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

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

**MATERIAL SAFETY DATA SHEET**  
**VEXCON NO. PS106**



Performance Construction Chemicals

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**GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:** CERTI-VEX® PENSEAL 244 40%  
**VOC CONTENT:** 496 GR/LITER OR 4.14 #/GAL.  
**CATEGORY:** WATERPROOFING  
**COMMON NAME:** SILANE/SILOXANE WATERROOFER  
**DOT SHIPPING NAME:** IN CONTAINER LESS THAN 119 GALS: CERTI-VEX PENSEAL 244 40% (NON-REGULATED) IN CONTAINERS GREATER THAN 119 GALS: COMBUSTIBLE LIQUID, N.O.S. (AROMATIC SOLVENT), 3, NA 1993, III  
**HEALTH AND SAFETY:** COMBUSTIBLE LIQUID: 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 MATERIALS INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONIA WHICH CAN BE FATAL USE OF RESPIRATORS IS ADVISED WHEN USING PRODUCT IN CONFINED AREA.

**SECTION I**

**MANUFACTURER:** VEXCON CHEMICALS  
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**PREPARED:** AUGUST 1997  
**UPDATED:** JULY 2003  
**PREPARED BY:** DARRYL F. MANUEL

**SECTION II HAZARDOUS INGREDIENTS**

<u>MATERIAL OR COMPONENTS</u>	<u>CAS. NO</u>	<u>HAZARD DATA</u>
SILANE	2943-75-1	ND
STODDARD SOLVENT	8052-41-3	
WHICH CONTAINS		
1,2,4 TRIMETHYLBENZENE	95-63-6	TWA 25 PPM

**SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS**

**BOILING POINT** 310-405°F      **MELTING POINT:** N/A  
**SPECIFIC GRAVITY (H2O=1)** 0.826      **VAPOR PRESSURE:** 3.1 mm Hg @20C  
**VAPOR DENSITY (AIR=1):** 4.9      **% VOLATILES BY VOL:** 70-86%  
**SOLUBILITY IN H2O % BY WT:** INSOLUBLE  
**EVAPORATION RATE (BUOH=1):** 0.12  
 PH (AS IS): NA    PH (1% SOLN): NA  
**APPEARANCE AND ODOR:** WATER WHITE TO YELLOW LIQUID WITH PAINT SOLVENT ODOR.

**SECTION IV FIRE AND EXPLOSION DATA**

**FLASH POINT:** (TEST METHOD): 109° F TCC  
**AUTOIGNITION TEMPERATURE:** 473  
**FLAMMABLE LIMITS IN AIR: % BY VOL:** ND    **LOWER:** 0.5    **UPPER:** 6.0  
**EXTINGUISHING MEDIA:** REGULAR FOAM, CARBON DIOXIDE OR DRY CHEMICAL. WATER MAY BE USED TO REDUCE THE RATE OF BURNING AND FOR COOLING PURPOSES  
**FIRE HAZARDS:** FLAMMABLE VAPORS MAY ACCUMULATE IN THE CONTAINER HEADSPACE ON FORMATION OF HYDROLYSIS BY-PRODUCTS.

**SPECIAL FIRE FIGHTING PROCEDURES:** THE USE OF SELF CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE. UNUSUAL FIRE AND EXPLOSION HAZARD: VAPOR IS HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR THROUGH VENTILATION SYSTEM A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.

**GENERAL HAZARD:** COMBUSTIBLE LIQUID, CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASH POINT. STATIC DISCHARGE, MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE. "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.  
**ELECTROSTATIC ACCUMULATION HAZARD:** USE PROPER GROUNDING

**SECTION V REACTIVITY DATA**

**CONDITIONS CONTRIBUTING TO INSTABILITY:** PRODUCT IS STABLE.  
**INCOMPATIBILITY:** THIS PRODUCT IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS STRONG ACIDS OR BASES AND SELECTED AMINES.  
**HAZARDOUS DECOMPOSITION PRODUCT:** THERMAL DECOMPOSITION IN THE PRESENCE OF AIR YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE, SI02 FORMALDEHYDE AND HYDROCARBON VOLITILES.  
**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR.

**SECTION VI HEALTH HAZARD INFORMATION**

**HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE**  
**ROUTES OR EXPOSURE/INHALATION:** THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION.  
 STODDARD SOLVENT

**SKIN CONTACT:** THIS PRODUCT MAY RESULT IN SKIN IRRITATION UPON PROLONGED/REPEATED CONTACT. STODDARD SOLVENT

**SKIN ABSORPTION:** SEE ABOVE

**EYE CONTACT:** THIS PRODUCT MAY BE AN EYE IRRITANT. STODDARD SOLVENT

**INGESTION:** 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 ppm**

**ACUTE OVEREXPOSURE:** ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS: MODERATE IRRITATION 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.

**THIS MATERIAL RELEASES METHYL ALCOHOL UPON HYDROLYSIS. METHYL ALCOHOL CAUSES OPTIC NEUROPATHY, METABOLIC ACIDOSIS AND RESPIRATORY DEPRESSION. SIGNS AND SYMPTOMS OF OVEREXPOSURE INCLUDE HEADACHES, BLURRED VISION, CONSTRICTED VISUAL FIELDS, SHORTNESS OF BREATH, DIZZINESS AND VERTIGO. INGESTION OF METHYL ALCOHOL MAY LEAD TO BLINDNESS OR DEATH.**

**INGESTION:** DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.

### **SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE**

**WASTE DISPOSAL METHOD:** IF POSSIBLE, PUMP TO CONTROLLED CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN COMPLIANCE WITH EPA, STATE, AND LOCAL REGULATIONS.

**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 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 ON-CONFINED WATERS. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

### **SECTION VIII CONTROL MEASURES**

#### **VENTILATION REQUIREMENTS:**

LOCAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR CONCENTRATIONS WITHIN SPECIFIED TIME-WEIGHTED TLV RANGES. IF GENERAL 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 A OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIRPACK.

**EYE:** CHEMICAL GOGGLES AND/OR FACE SHIELDS 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.

**OTHER CLOTHING AND EQUIPMENT:** IMPERMEABLE APRONS AND HELMETS (HEAD COVER) ARE ADVISED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

### **SECTION IX SPECIAL PRECAUTIONS**

#### **PRECAUTIONARY STATEMENTS:**

**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. PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE REMOVE SATURATED CLOTHING AND FLUSH AFFECTED AREAS WITH WATER.

**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.

#### **HMS 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

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

### **SECTION X 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 64742-95-6.

**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 800-424-8802. THE REPORTABLE SPILL QUANTITY OF THIS PRODUCT IS 5,000 POUNDS.

#### **DELAYED HEALTH, FIRE:**

FEDERAL:

FDA:

USDA:

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

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