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

HEALTH 1
FLAMMABILITY 3
REACTIVITY 0

SAFETY DATA SHEET
VEXCON NO. PS120 AIM
CERTI-VEX PENSEAL 244 O/W AIM

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:
CERTI-VEX PENSEAL 244 O/W AIM
VOC CONTENT: <250 GRAMS/LITER OR <2.09 #/GAL
CATEGORY: WATERPROOFING CONCRETE/MASONRY SEALER
COMMON NAME: SILANE WATER PROOFER
MANUFACTURER: VEXCON CHEMICALS, INC
ADDRESS: 7240 STATE RD, PHILADELPHIA, PA 19135
EMERGENCY NO: 800.659.2026 (PolySat Inc)
TELEPHONE NO: 215.332.7709 (Vexcon)
CHEMTREC NO: 800.424.9300 (CCN# 23822)
PREPARED: AUGUST 1997
UPDATED: JULY 2019
PREPARED BY: DARRY F. MANUEL, PRESIDENT

SECTION II – HAZARD IDENTIFICATION

HAZARD CLASSIFICATION:

PHYSICAL HAZARDS
Flammable Liquid – Category 2

HEALTH HAZARDS
Specific Target organ Toxicity - Single Exposure – Category 3
Serious Eye Damage/ Eye Irritation – Category 2A

ENVIRONMENTAL HAZARDS
Acute Hazards to the aquatic environment – Category 3

SINGLE WORD: DANGER

HAZARD STATEMENT: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS:


RESPONSE – If Inhaled: if breathing is difficult remove to fresh air and keep comfortable for breathing. If in eyes: rinse cautiously with water for several minutes. Remove contacts lenses, if present and easy to do. Continur rinsing. If eye irritation persists Seek medical attention.

SECTION III HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>MATERIAL OR COMPONENTS</th>
<th>CAS NO.</th>
<th>%</th>
<th>HAZARD DATA</th>
<th>UN#</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIETHOXY (octyl) SILANE</td>
<td>2943-75-1</td>
<td>60-70%</td>
<td>ND</td>
<td>1993</td>
</tr>
<tr>
<td>POLYMER</td>
<td>68554-66-5</td>
<td>1-5%</td>
<td>NOT ESTABLISHED</td>
<td>N/A</td>
</tr>
<tr>
<td>ACETONE</td>
<td>67-64-1</td>
<td>20-30%</td>
<td>OSHA HAZARD FLAMMABLE LIQUID</td>
<td>1090</td>
</tr>
<tr>
<td>BUTYL ACETATE</td>
<td>123-86-4</td>
<td>1-5%</td>
<td>OSHA PEL: 100 ppm, 525 mg/m3 (TWA)</td>
<td>1123</td>
</tr>
<tr>
<td>STODDARD SOLVENT</td>
<td>8052-41-3</td>
<td>5-10%</td>
<td>ACGIH TLV: 100 ppm, 525 mg/m3 (TWA)</td>
<td>1268</td>
</tr>
<tr>
<td>THE SOLVENT PORTION CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPONENT</td>
<td>CAS NO.</td>
<td>MAX %</td>
<td>HAZARD DATA</td>
<td>UN#</td>
</tr>
<tr>
<td>1,3,5 TRIMETHYL BENZENE</td>
<td>95-63-6</td>
<td>10%</td>
<td>OSHA PEL: NE</td>
<td>2325</td>
</tr>
</tbody>
</table>

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, LIGHTESTHEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION. STODDARD SOLVENT COMPONENT, ACETONE COMPONENT.

SKIN CONTACT: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. STODDARD SOLVENT COMPONENT, ACETONE COMPONENT.

SKIN ABSORPTION: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. STODDARD SOLVENT COMPONENT, ACETONE COMPONENT.

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 ppm, STODDARD SOLVENT COMPONENT ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.

ACUTE OVEREXPOSURE: 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:

EYES: FLUSH WITH PLENTY 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.

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**SECTION V FIREFIGHTING MEASURES**

**EXTINGUISHING MEDIA:** 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.

**GENERAL HAZARD:** Flammable 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 pressure or cut, weld, braze, solder, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of initiation. 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:** Use proper grounding.

**UNUSUAL FIRE AND EXPLOSION HAZARD:** Flammable vapors may accumulate in the container headspace on formation of hydrolysis by-products. This product is extremely flammable and explosive under normal conditions in the presence of flame or spark source. If storage containers are exposed to excessive heat, overpressurization of the containers can result. Vapor is heavier than air and may travel along the ground or through ventilation system considerable distance to a source of ignition and flash back.

**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 the product is stored. Storage containers exposed to fire should be kept cool with water spray in order to prevent pressure build up.

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**SECTION VI ACCIDENTAL RELEASE MEASURES**

**AQUATIC TOXICITY (E.g. 96 HR. 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).

**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, impediment of spill, for large spills, 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.

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**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.

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**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. Impermeable gloves, (chemical resistant) such as neoprene, latex or pva.

**OTHER CLOTHING AND EQUIPMENT:** To prevent body contact, impermeable clothing and aprons are recommended. Impermeable 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.

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**SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS**

**BOILING POINT:** (760mmHg)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>56°C / 134°F (acetone)</td>
<td></td>
</tr>
</tbody>
</table>

**MELTING POINT:** −95°C, −139°F (acetone)

**VAPOR PRESSURE:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>184 mmHg@68°F/20°C (acetone)</td>
<td></td>
</tr>
</tbody>
</table>

**SOLUBILITY IN H2O % BY WT:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>% VOLATILES BY VOL:</td>
<td>0.0%</td>
</tr>
<tr>
<td>MISCELLANEOUS DEPOSITS:</td>
<td>35-45%</td>
</tr>
<tr>
<td>EVAPORATION RATE (BuAc=1):</td>
<td>FAST 7.7 (acetone)</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H2O=1):</td>
<td>0.868</td>
</tr>
</tbody>
</table>

**PH (AS IS):** N/A

**PH (1% SOLN):** N/A

**APPEARANCE AND ODOR:** Clear liquid with paint solvent odor

**FLASH POINT:** (TEST METHOD)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>-17°C / 1.4°F (TCC) (acetone)</td>
<td></td>
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</table>

**AUTOIGNITION TEMP:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>465°C / 869°F (acetone)</td>
<td></td>
</tr>
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</table>

**FLAMMABLE LIMITS IN AIR, % BY VOL:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOWER:</td>
<td>2.5%</td>
</tr>
<tr>
<td>UPPER:</td>
<td>12.8%</td>
</tr>
</tbody>
</table>
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

**ACETONE**

**ORAL**

RAT LD50 5800 MG/KG

**INHALATION**

RAT LC50 1000 MG/KG

**IRRITATION EYE**

RABBIT STANDARD DRAIZE, 20 MG, SEVERE

INVESTIGATED AS A RUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR

SECTION XII ECOLOGICAL INFORMATION

**ACETONE**

**SOIL**

WHEN RELEASED INTO THE SOIL, THIS MATERIAL IS EXPECTED TO READILY BIOGRADE. WHEN RELEASED INTO THE SOIL, THIS MATERIAL IS EXPECTED TO LEACH INTO GROUNDWATER. WHEN RELEASED INTO SOIL, THIS MATERIAL IS EXPECTED TO QUICKLY EVAPORATE.

**WATER**

WHEN RELEASED INTO WATER THIS MATERIAL IS EXPECTED TO READILY BIOGRADE. WHEN RELEASED INTO WATER THESE MATERIALS IS EXPECTED TO QUICKLY EVAPORATE. THIS MATERIAL HAS A LOG OCTONAL-WATER PARTITION COEFFICIENT OF LESS THAN 3.0. THIS MATERIAL IS EXPECTED TO BIOACCUMULATE.

**AIR**

WHEN RELEASED INTO THE AIR, THIS MATERIAL MY BE MODERATELY DEGRADED BY REACTION WITH PHOTOCHEMICALLY PRODUCE HYDOXYL RADICALS. WHEN RELEASED INTO THE AIR, THIS MATERIAL MAY BE MODERATELY DEGRADED BY PHOTOLYSIS. WHEN RELEASED INTO THE AIR, THIS MATERIAL IS EXPECTED TO BE READILY REMOVED FROM THE ATMOSPHERE BY WET DEPOSITION.

**ENVIRONMENTAL TOXICITY**

THIS MATERIAL IS NOT EXPECTED TO BE TOXIC TO AQUATIC LIFE. THE LC50/96 HR. VALUES FOR FISH ARE OVER 100 MGL.

SECTION XIII DISPOSAL CONSIDERATIONS

**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** | **Quantity Limitation**
| DOT | GROUND | 1866 | RESIN SOLUTION | 3 | II | ORMD – Max 30kG gross wt (66ibs)
| IATA | AIR | 1866 | RESIN SOLUTION | 3 | II | Passenger Aircraft - 5L Cargo Aircraft - 60L
| IMDG | OCEAN | 1866 | RESIN SOLUTION | 3 | II | 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 2943-75-1.

**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.

**THE REPORTABLE SPILL QUANTITY (RQ) OF THIS PRODUCT IS 5,000 POUNDS (ACETONE, BUTYL ACETATE).**

**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, OTHERS)

**CALIFORNIA:** WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

**CERCLA / RQ:** 5000 POUNDS (ACETONE, BUTYL ACETATE)

**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

<table>
<thead>
<tr>
<th>VEXCON CERTI-VEX PENSEAL 244 O/W AIM</th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
<th>KEY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>1</td>
<td>1</td>
<td>4=SEVERE</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>3</td>
<td>3</td>
<td>3=SERIOUS</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
<td>0</td>
<td>2=MODERATE</td>
</tr>
</tbody>
</table>

0=MINIMAL