SAFETY DATA SHEET
VECON NO. PS106
CERTI-VEX PENSEAL 244 40%

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

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:
CERTI -VEX PENSEAL 244 40%

VOC CONTENT:  <600 GR/ LITER OR <5.00 #/GAL

CATEGORY: WATERPROOFING CONCRETE/MASONRY SEALER

COMMON NAME: SILANE/SILOXANE WATERPROOFER

MANUFACTURER: VEXCON CHEMICALS, INC

ADDRESS: 7240 STATE RD, PHILADELPHIA, PA 19135

EMERGENCY NO: 800.858.2828 (PolySat Inc)

TELEPHONE NO: 215.332.7706 (Vexcon)

CHEMTREC NO: 800.424.9300 (CCN# 23822)

PREPARED: AUGUST 1997

UPDATED: AUGUST 2017

PREPARED BY: DARRY F. MANUEL, PRESIDENT

SECTION II – HAZARD IDENTIFICATION

CLASSIFICATION OF MIXTURE:
FLAMMABLE LIQUID – CATEGORY 3
ASPIRATION HAZARD – CATEGORY 1
EYE IRRITATION – CATEGORY 2B
SKIN IRRITATION – CATEGORY 2
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE (NARCOTIC EFFECTS) – CATEGORY 2
STATIC ACCUMULATING LIQUID

SINGLE WORD - DANGER

HAZARD STATEMENT: FLAMMABLE LIQUID AND VAPOR MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.

PRECAUTIONARY STATEMENT. FLAMMABLE 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 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

<table>
<thead>
<tr>
<th>MATERIAL OR COMPONENTS</th>
<th>CAS NO.</th>
<th>%</th>
<th>HAZARD DATA</th>
<th>UNW</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE</td>
<td>2943-75-1</td>
<td>40- 50%</td>
<td>CAN FORM ETHYL ALCOHOL UPON HYDROLYSIS. ETHYL ALCOHOL OSHA REL AND ACGIH TLV: 1000 ppm TWA</td>
<td>1993</td>
</tr>
<tr>
<td>STODDARD SOLVENT</td>
<td>8052-41-3</td>
<td>50- 60%</td>
<td>ACGIH TLV: 100 ppm, 525 mg/m3 (TWA) OSHA REL: 500 ppm, 2900 mg/m3 (TWA) NIOSH REL: 350 mg/m3 (TWA)</td>
<td>1268</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, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION. STODDARD SOLVENT COMPONENT

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

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

EYE CONTACT: THIS PRODUCT MAY BE AN EYE IRRITANT.

INGESTION / INHALATION:

STODDARD SOLVENT 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.

NOTE ABOUT MINERAL SPIRITS OR STODDARD SOLVENT:

NOTE: THE THRESHOLD LIMIT VALUE (TLV) OF 100 ppm VAPOR IN AIR HAS BEEN ESTABLISHED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS FOR STODDARD SOLVENT AND IS THUS APPLICABLE TO MINERAL SPIRITS. IN A STUDY OF EXXON CORP. MEDICAL RESEARCH WITH LABORATORY ANIMALS (RATS) EXPOSED TO VAPORS IN AIR OF A SOLVENT SIMILAR TO MINERAL SPIRITS, KIDNEY DAMAGE WAS NOTED IN MALE RATS AT THIS CONCENTRATION. THE RECENT STUDY SUGGESTS THAT THIS OCCUPATIONAL EXPOSURE LIMIT MAY HAVE TO BE LOWERED FOR THIS PRODUCT. WORK IS CONTINUING TO VALIDATE THESE FINDINGS AND WHETHER A REVISED OCCUPATIONAL EXPOSURE LIMIT SHOULD BE RECOMMENDED FOR MINERAL SPIRITS.

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.
**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. Do not use water in amounts sufficient to form a water film on the surface of the liquid.

**COMBUSTIBLE LIQUID - CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASH POINT:** Static discharge may cause an incendiary electrical discharge. *EMPTY* containers retain product residue (liquid and/or vapor) and can be extremely 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.

**GENERAL HAZARD:** This product is flammable and explosive under normal conditions in the presence of flame or spark source. Flammable vapors may accumulate in the container headspace on formation of hydrolysis by-products. If storage containers are exposed to excessive heat, overpressurization of the containers can result in vapor being heavier than air and may travel along the ground or through ventilation system considerable distance to a source of ignition and flash back. Keep work areas free of hot metal surfaces and other sources of ignition.

**ELECTRO-STATIC ACCUMULATION HAZARD:** 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.

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

**INHALATION:** Do not induce vomiting; seek immediate medical attention.

**INGESTION:** Do not induce vomiting; seek immediate medical attention.

**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), or the state, federal, and local disposal regulations.

**WATER SPILL:** Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental regulations, sinkings and flushing may be made into 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 the emptying of the container usually results in retainer of 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 light temperatures. Open flamed, 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 necessary to keep product concentration below the 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 p/n.

**OTHER CLOTHING AND EQUIPMENT:** To prevent body contact. Impermeable clothing and boots 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.
SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BOILING POINT</strong></td>
<td>(760mmHg)</td>
</tr>
<tr>
<td>RANGE</td>
<td>156-202°C / 313-396°F</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE</strong></td>
<td>5 mmHg@68°F/25°C</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN H2O % BY WT</strong></td>
<td>INSOLUBLE</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY (AIR=1):</strong></td>
<td>4.8</td>
</tr>
<tr>
<td><strong>EVAPORATION RATE (BuAc=1):</strong></td>
<td>SLOW 0.1 (Stoddard Solvent)</td>
</tr>
<tr>
<td><strong>pH (AS IS)</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>APPEARANCE AND ODOR</strong></td>
<td>CLEAR TO YELLOW LIQUID WITH PAINT SOLVENT ODOR</td>
</tr>
<tr>
<td><strong>FLASH POINT:</strong> (TEST METHOD)</td>
<td>38°C / 100°F (TCC)</td>
</tr>
<tr>
<td><strong>AUTOIGNITION TEMP:</strong></td>
<td>232°C / 450°F (STODDARD SOLVENT)</td>
</tr>
<tr>
<td><strong>FLAMMABLE LIMITS IN AIR, % BY VOL:</strong></td>
<td>LOWER: 0.8% UPPER: 6.0%</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY (H2O=1)</strong></td>
<td>0.831</td>
</tr>
<tr>
<td><strong>pH (1% SOLN)</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY (AIR=1):</strong></td>
<td>N/A</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

<table>
<thead>
<tr>
<th>ROUTE OF TOXICITY</th>
<th>CONCLUSION/REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>INHALATION</td>
<td>MINIMALLY TOXIC. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.</td>
</tr>
<tr>
<td>IRritation</td>
<td>NEGligible HAZARD at AMBIENT/NORMAL HANDLING TEMPERATURES.</td>
</tr>
<tr>
<td>INGESTION</td>
<td>MINIMALLY TOXIC. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.</td>
</tr>
<tr>
<td>TOXICITY: LD50 &gt;5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>SKIN</td>
<td>MAY DRY THE SKIN LEADING TO DESCOMFORT AND DERMATITIS. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.</td>
</tr>
<tr>
<td>IRritation</td>
<td>MAY CAUSE MILD, SHORT –LASTING DISCOMFORT TO EYES. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.</td>
</tr>
<tr>
<td>EYE</td>
<td>MAY CAUSE MILD, SHORT –LASTING DISCOMFORT TO EYES. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.</td>
</tr>
</tbody>
</table>

SECTION XII ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>ECOTOXICITY</th>
<th>MATERIAL EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOBILITY</td>
<td>MATERIAL HIGHLY VOLATILE, WILL PARTITION RAPIDLY TO AIR. NOT EXPECTED TO PARTITION TOSEDIMENT AND WASTEWATER SOLIDS.</td>
</tr>
<tr>
<td>PERSISTENCE AND DEGRADABILITY</td>
<td>MATERIAL EXPECTED TO BE INHERENTLY BIODEGRADABLE</td>
</tr>
<tr>
<td>BIODEGRADATION</td>
<td>MATERIAL TRANSFORMATION DUE TO HYDROLYSIS NOT EXPECTED TO BE SIGNIFICANT</td>
</tr>
<tr>
<td>HYDROLYSIS</td>
<td>MATERIAL TRANSFORMATION DUE TO PHOTOLYSIS NOT EXPECTED TO BE SIGNIFICANT</td>
</tr>
<tr>
<td>PHOTOLYSIS</td>
<td>MATERIAL EXPECTED TO DEGRADE RAPIDLY IN AIR</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Governing Body</th>
<th>Mode</th>
<th>UN Number</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Packing Group</th>
<th>Quantity Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>GROUND (NON-BULK)</td>
<td>NON-REG.</td>
<td>NON REG.</td>
<td>NON REG.</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td>AIR</td>
<td>1993</td>
<td>FLAMMABLE LIQUID N.O.S. (STODDARD SOLVENT, ALOXYSLANE)</td>
<td>3</td>
<td>III</td>
<td>Passenger Aircraft – 60L, Cargo Aircraft – 220L</td>
</tr>
<tr>
<td>IMDG</td>
<td>OCEAN</td>
<td>1993</td>
<td>FLAMMABLE LIQUID N.O.S. (STODDARD SOLVENT, ALOXYSLANE)</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
</tbody>
</table>

MARINE POLLUTANT: This product does contain a material on the marine pollutants table (HMT 172.101 App. B) Stoddard Solvent

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 8052-41-3 (STODDARD SOLVENT)

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 (STODDARD SOLVENT).

MARINE POLLUTANTS: This product does contain a material on the marine pollutants table (HMT 172.101 Appendix B). See section XIV

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: immediate, delayed health, fire.

ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)

CERCLA / RQ: NONE ESTABLISHED

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 ASSOCIATION (NPCA) HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704) IDENTIFICATION OF FIRE HAZARDS OF MATERIALS

VEXCON CERTI-VEX PENSEAL 244-40%NPCA-HMIS NFPA 704
HEALTH 2 2
FLAMMABILITY 2 2
REACTIVITY 1 1

KEY
4 – SEVERE
3 – SERIOUS
2 – MODERATE
1 – SLIGHT
0 – MINIMAL