**SAFETY DATA SHEET**  
**VEXCON NO. PS107**  
**CERTI-VEX GUARD CACS**

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**SECTION I - GENERAL INFORMATION**

- **PRODUCT IDENTIFICATION:** CERTI-VEX GUARD CHEMICALLY ACTIVE CONCRETE STAIN (CACS)
- **VOC CONTENT:** <400 GRAMS/LITER OR <3.36 #/GAL
- **COMMON NAME:** SILANE POLYMER
- **MANUFACTURER:** VEXCON CHEMICALS, INC
- **ADDRESS:** 7240 STATE RD, PHILADELPHIA, PA 19135
- **EMERGENCY NO.:** 800.858.2828 (PolySat Inc)
- **CHEMTREC NO.:** 800.424.9300 (CCN# 23822)
- **PREPARED:** MAY 1998
- **UPDATED:** MAY 2017
- **PREPARED BY:** DARRY F. MANUEL, PRESIDENT

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**SECTION II – HAZARD IDENTIFICATION**

<table>
<thead>
<tr>
<th>CLASSIFICATION OF MIXTURE</th>
<th>FLAMMABLE LIQUIDS – CATEGORY 2</th>
<th>ACUTE TOXICITY; INHALATION – CATEGORY 4</th>
<th>SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY – SINGLE EXPOSURE – CATEGORY 3</th>
<th>ACUTE AQUATIC TOXICITY – CATEGORY 3</th>
</tr>
</thead>
</table>

**SINGLE WORD: DANGER**

**HAZARD STATEMENT:** HIGHLY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. HARMFUL TO AQUATIC LIFE.

**PRECAUTIONARY STATEMENT:** FLAMMABLE LIQUID: KEEP AWAY FOR HEAT/SPARKS/OPEN FLAMES/HOT SURFACES; NO SMOKING. 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.

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**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>SILANE POLYMER</td>
<td>68554-66-5</td>
<td>35-45%</td>
<td>ND</td>
<td>none</td>
</tr>
<tr>
<td>TERTIARY BUTYL ACETATE</td>
<td>540-88-5</td>
<td>30-50%</td>
<td>OSHA HAZARD: FLAMMABLE LIQUID</td>
<td>1123</td>
</tr>
<tr>
<td>STODDARD SOLVENT</td>
<td>8052-41-3</td>
<td>1-5%</td>
<td>ACGIH TLV: 100 ppm, 550 mg/m3 (TWA)</td>
<td>1255</td>
</tr>
</tbody>
</table>

**PIGMENTS (2)**

| 1. TITANIUM DIOXIDE | 13463-67-7 | 1-5% | OSHA PEL 15 mg/m3 (TWA) | ACGIH TLV 10 mg/m3 (TWA) | none |
| 2. CALCIUM CARBONATE | 1317-65-3 | 15-25% | OSHA TWA 5.0 mg/m3 RESPIRABLE | OSHA TWA 15.0 mg/m3 TOTAL | none |

**THIS PRODUCT DOES NOT CONTAIN ANY SECTION 313 REPORTABLE INGREDIENTS.**

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**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 AND TERTIARY BUTYL ACETATE COMPONENTS.

**SKIN CONTACT:**

- THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. STODDARD SOLVENT AND TERTIARY BUTYL ACETATE COMPONENTS.

**SKIN ABSORPTION:**

- THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. STODDARD SOLVENT AND TERTIARY BUTYL ACETATE COMPONENTS.

**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 AND TERTIARY BUTYL ACETATE COMPONENTS.
- ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.
- 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.
- MOVE TO LOCATION FREE FROM VAPORS. 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.

**INGESTION:**

- DO NOT INDUCE VOMITING; SEEK IMMEDIATE MEDICAL ATTENTION.

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**SAFETY DATA SHEET**
SECTION V FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, OR HAND OPERATED 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.

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 PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE STORAGE 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 DRAINING, POLYMERIZED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.

GENERAL HAZARD: USE PROPER GROUNDING

UNUSUAL FIRE AND EXPLOSION HAZARD: IF STORAGE CONTAINERS ARE EXPOSED TO EXCESSIVE HEAT, OVER PRESSURIZATION 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. 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 FIREFIGHTERS 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.

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 AND/OR VAPOR (TEST METHOD)

FLASH POINT: 4°C / 39°F (TCC) (TBAc)

AUTOIGNITION TEMPERATURE: 517°C / 964°F (TBAc)

FLAMMABLE LIMITS IN AIR, % BY VOLUME:

LOWER: 1.2% UPPER: 6.9% (TBAc)

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

MEDIAN 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 AREA WHERE MATERIALS MAY BE IN CONTACT WITH THIS MATERIAL. KEEP AWAY FROM HIGH TEMPERATURES, OPEN FLAMES, SPARKS, SOURCES OF IGNITION, ETC. USE WITH EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

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 AND PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

FIRE FIGHTING: WATER MAY BE UNSUITABLE AS AN EXTINGUISHING
SECTION XI TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>ACUTE TOXICITY</th>
<th>LC50 (VAPOR)</th>
<th>RAT</th>
<th>4211 ppm</th>
<th>6 HOURS</th>
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<tbody>
<tr>
<td>LD50 (ORAL)</td>
<td>RAT</td>
<td>4500</td>
<td>MG/KG BWT</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>RABBIT</td>
<td>&gt;2000</td>
<td>.G/KG BWT</td>
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INHALATION

VAPORS OR AEROSOL MAY CAUSE IRRITATION OF THE EYES, NOSE AND THROAT AS WELL AS CNS DEPRESSION (FATIGUE, DIZZINESS, LOSS OF CONCENTRATION, WITH COLLAPSE, COMA AND DEATH POSSIBLE IN CASES OF SEVERE OVER EXPOSURE), INHALATION OF AIRBORNE DROPLETS MAY CAUSE IRRITATIONS OF THE RESPIRATORY TRACT.

INGESTION

MAY CAUSE CNS DEPRESSION, GASTRIC DISCOMFORT, AND VOMITING. THIS MATERIAL IS AN ASPIRATION HAZARD.

SKIN CONTACT

NO SYSTEMIC TOXICITY IS EXPECTED FROM ACUTE DERMAL EXPOSURE.

IRRITATION

SKIN NOT A SKIN IRRITANT
EYES NO EYE IRRITATION

SENSITIZATION

DOES NOT INDUCE SKIN SENSITIZATION.

REPEATED DOES TOXICITY

INHALATION REPEATED EXPOSURE STUDIES DEMONSTRATED TARGET ORGAN EFFECTS IN MALE RATS (KINDEY) BY MECHANISM OF ACTION THAT IS NOT RELEVANT TO HUMANS NAID IN MICE (NERVOUS SYTEM) TRANSIENT BEHAVIOR CHANGES THAT WERE OBSERVED IMMEDIATELY AFTER EXPOSURE.

REPRODUCTIVE EFFECTS

THIS SUBSTANCE IS NOT TOXIC TO REPRODUCTION. THE REPRODUCTIVE TOXICITY OF T-BUTYL ACETATE HAS BEEN INVESTIGATED IN RATS VIA A INHALATION ROUTE. THERE WERE NO ADVERSE EFFECTS ON REPRODUCTIVE PERFORMANCE OR SPERM NUMBER OR UALITY AT 1600 ppm, THE HIGHEST EXPOSURE LEVEL TESTED. IN ADDITION, NO GROSS OR HISTOPATHOLOGIC EFFECTS WERE OBSERVED IN THE REPRODUCTIVE ORGANS OF MALE AND FEMALE RATS OR MICE EXPOSED AT 1600 ppm FOR 90 DAYS IN A REPEATED EXPOSURE TOXICITY STUDY CONDUCTED VIA INHALATION AND THERE WAS NO ADVERSE EFFECTS ON ESTROUS CYCLE LENGTH IN MICE.

DEVELOPMENTAL TOXICITY

THIS SUBSTANCE IS NOT A DEVELOPMENTAL TOXICANT. IT DID NOT CAUSE MATERNAL TOXICITY AND NO EMBRYOFETAL TOXICITY OR DEVELOPMENTAL ABNORMALITIES WERE OBSERVED IN THE OFF SPRING OF ANIMALS FOLLOWING INHALATION EXPOSURES OF 1600 ppm.

GENETIC TOXICITY

NEGATIVE FOR GENOTOXICITY USING BOTH IN VITRO AND IN VIVO TEST.

SPECIFIC DATA NOT AVAILABLE. T-BUTANOL, THE PRIMARY METABOLITE OF T-BUTYL ACETATE IS AN ANIMAL CARCINOGEN. IN DRINKING WATER STUDY, T-BUTANOL INDUCED BEGGIN KIDNEY TUMORS IN MALE RATS VIA AN a-2u-GLOBULIN MODE OF ACTION, A TUMOR MECHANISM NOT RELEVANT TO HUMANS. IN FEMALE MICE, THERE WAS AN INCREASE INCIDENCE OF BEGGIN THYROID TUMORS. A TUMOR MECHANISM THAT MOST LIKELY IS NOT RELEVANT TO HUMANS. THIS SUBSTANCE IS NOT CLASSIFIED FOR CARCINOGENICITY BY IARC, OSHA, NTP OR THE EPA.

SECTION XII ECOLOGICAL INFORMATION

<table>
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<tr>
<th>ACUTE FISH TOXICITY</th>
<th>LC50/96 HOURS</th>
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<tbody>
<tr>
<td>ONCORHYNCHUS MYKISS</td>
<td>240 mg/l</td>
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</tbody>
</table>

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

EC50/48 HOURS

LOW ACUTE TOXICITY TO AQUATIC INVERTEBRATES

EC50/96 HOURS

LOW TOXICITY TO ALGAE

TOXICITY TO AQUATIC PLANTS

EC5/16 HOURS

TOXICITY TO MICROORGANISMS

EC3/72 HOURS

LOW TOXICITY TO BACTERIA

EC50/48 HOURS

EC50/96 HOURS

SECTION XIII DISPOSAL CONSIDERATIONS

AQUATIC TOXICITY (E.G. 96 HR. TL): 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

<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>
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<tbody>
<tr>
<td>DOT</td>
<td>GROUND</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3, II</td>
<td>ORM – Max 30Kg gross wt (66lbs)</td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td>AIR</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3, II</td>
<td>Passenger Aircraft - 5L Cargo Aircraft - 60L</td>
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</tr>
<tr>
<td>IMDG</td>
<td>OCEAN</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3, II</td>
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</tbody>
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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 OR 540-88-5 (tertiary butyl acetate).

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 (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, OTHER)

FEDERAL / FDA / USDA:
MARINE POLLUTANTS: THIS PRODUCT DOES CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B). SEE SECTION XIV

CERCLA / RQ: 5000 POUNDS (BUTYL ACETATE)
THIS PRODUCT CONTAINS A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A): 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:

<table>
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<th>CERTI-VEX GUARD CACS</th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
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<tbody>
<tr>
<td>HEALTH</td>
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<tr>
<td>FLAMMABILITY</td>
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</tr>
<tr>
<td>REACTIVITY</td>
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</tr>
</tbody>
</table>

KEY

4 -- SEVERE
3 -- SERIOUS
2 -- MODERATE
1 -- SLIGHT
0 -- MINIMAL