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

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

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### SECTION I - GENERAL INFORMATION

**PRODUCT IDENTIFICATION**

**STARSEAL BB SEALER**

- **VOC CONTENT:** <250 GR/LITER OR <2.09#/GAL
- **CATEGORY:** CONCRETE CURING COMPOUNDS
- **COMMON NAME:** VINYLTOUENE ACRYLATE EMULSION
- **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:** DECEMBER 2014
- **UPDATED:** DECEMBER 2017
- **PREPARED BY:** DARRY F. MANUEL, PRESIDENT

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### SECTION II - HAZARD IDENTIFICATION

**CLASSIFICATION OF MIXTURE**

- **ASPIRATION:** CATEGORY 1
- **EYE IRRITATION:** CATEGORY 2
- **SKIN IRRITATION:** CATEGORY 2
- **SPECIFIC TARGET ORGAN TOXICITY:** SINGLE EXPOSURE (NARCOTIC EFFECTS) – CATEGORY 3

**SIGNAL WORD:** WARNING

**HAZARD STATEMENT:** UNDER NORMAL CONDITIONS OF USE, THIS PRODUCT IS NOT CONSIDERED HAZARDOUS ACCORDING TO REGULATORY GUIDELINES.

**PRECAUTIONARY STATEMENT:** UNDER NORMAL CONDITIONS OF INTENDED USE, THIS PRODUCT DOES NOT POSE A RISK TO HEALTH. EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN OR RESPIRATOR IRRITATION. 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 WHICH THIS PRODUCT MAY CONTAIN AS LITTLE AS 5%. USE WITH ADEQUATE VENTILATION. DO NOT INDUCE VOMITING IF SWALLOWED. USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE CLOTHING IS ADVISED WHEN HANDLING THIS PRODUCT. KEEP FROM FREEZING.

---

### 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>
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<tr>
<td>VINYLTOUENE ACRYLATE POLYMER</td>
<td>25085-34-1</td>
<td>25-35%</td>
<td>ND</td>
<td>1993</td>
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<tr>
<td>STODDARD SOLVENT / MINERAL SPIRITS</td>
<td>8052-41-3</td>
<td>5-10%</td>
<td>ACGIH TLV: 100 ppm, 525 mg/m3 (TWA), OSHA PEL: 500 ppm, 2900 mg/m3 (TWA), NIOSH REL: 350 mg/m3 (TWA)</td>
<td>1268</td>
</tr>
<tr>
<td>PERFORMANCE ADDI</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>NONE</td>
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<tr>
<td>WATER</td>
<td>ND</td>
<td>BAL</td>
<td>ND</td>
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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 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, STODDARD SOLVENT COMPONENT.

**INGESTION / INHALATION:**

- **EFFECTS OF OVEREXPOSURE:** TLV 100 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.
- **NOTE ABOUT MINERAL SPIRITS OR STODDARD SOLVENT:** 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.

**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 PROMPT 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.

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**SAFETY DATA SHEET**

**VEXCON NO. VW105**

**STARSEAL BB SEALER**

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**PRECAUTIONARY STATEMENT:** UNDER NORMAL CONDITIONS OF INTENDED USE, THIS PRODUCT DOES NOT POSE A RISK TO HEALTH. EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN OR RESPIRATOR IRRITATION. 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 WHICH THIS PRODUCT MAY CONTAIN AS LITTLE AS 5%. USE WITH ADEQUATE VENTILATION. DO NOT INDUCE VOMITING IF SWALLOWED. USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE CLOTHING IS ADVISED WHEN HANDLING THIS PRODUCT. KEEP FROM FREEZING.
GENERAL HAZARD:

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 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) RANGE 156-202°C / 313-396°F (Stoddard Solvent)

MELTING/FREEZING POINT: -40°C / -40°F (Stoddard Solvent)

VAPOR PRESSURE: 5 mmHg@68°F/25°C (Stoddard solvent) SOLUBILITY IN H2O % BY WT: % VOLATILES BY VOL: SOLUBLE VOLATILES BY WT: 65-75% EVAPORATION RATE (BuAcr=1): 0.1 SLOW (Stoddard Solvent) REALITIVE DENSITY (H2O=1): 0.975 pH (AS IS): 7-8 TYPICAL pH (1% SOLN): N/A APPEARANCE AND ODOR: MILKY WHITE EMULSION WITH AROMATIC SOLVENT ODOR (MAY CONTAIN FUGITIVE DYE)

SECTION X STABILITY AND REACTIVITY

FLASH POINT: (TEST METHOD) >93°C / >200°F (TCC)

AUTOIGNITION TEMP: 232°C / 450°F (STODDARD SOLVENT)

FLAMMABLE LIMITS IN AIR, % BY VOL: LOWER: 0.8% UPPER: 6.0% (STODDARD SOLVENT)

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

INHALATION TOXICITY: MINIMALLY TOXIC. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS

IRRITATION NEGLIGIBLE HAZARD AT AMBIENT/NORMAL TEMPERATURES

INGESTION TOXICITY: TOXICITY: LD50 >5000 MG/KG MINIMALLY TOXIC. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS

SKIN TOXICITY: TOXICITY: LD50 >3160 MG/KG MINIMALLY TOXIC. BASED ON TEST DATA FOR STRUCTURALLY
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.

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SECTION XII ECOLOGICAL INFORMATION

**EXOTOXICITY** MATERIAL EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**MOBILITY** MATERIAL- HIGHLY VOLATILE, WILL PARTITION RAPIDLY TO AIR. NOT EXPECTED TO PARTITION TO SEDIMENT AND WASTEWATER SOLIDS.

**BIODEGRADATION** MATERIAL EXPECTED TO BE INHERENTLY BIODEGRADABLE.

**HYDROLYSIS** MATERIAL TRANSFORMATION DUE TO HYDROLYSIS. NO EXPECTED TO BE SIGNIFICANT.

**PHOTOLYSIS** MATERIAL TRANSFORMATION DUE TO PHOTOLYSIS. NO EXPECTED TO BE SIGNIFICANT.

**ATMOSPERIC OXIDATION** MATERIAL EXPECTED TO DEGRADE RAPIDLY IN AIR.

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SECTION XIII DISPOSAL CONSIDERATIONS

**CHRONIC/OTHER EFFECTS:** VAPOR/AEROSOL CONCENTRATIONS ABOVE RECOMMENDED EXPOSURE LEVELS ARE IRRITATION TO THE EYES. PROLONGED OR/REPEATED SKIN CONTACT WITH LOW VISCOSITY MATERIALS MAY DEFAT THE SKIN RESULTING IN POSSIBLE IRRITATION AND DERMATITIS. SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE LUNGS INGESTION OR FROM VOMITING MAY CAUSE CHEMICAL PNEUMONITIS OR PULMONARY EDEMA.

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SECTION XIV TRANSPORTATION INFORMATION

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<th>Governing Body</th>
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<th>UN Number</th>
<th>Proper Shipping Name</th>
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</table>

MARINE POLLUTANT: THIS PRODUCT DO NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B).

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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).

**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)

- MARINE POLLUTANTS: NO. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B).
- CALIFORNIA PROP 65: WARNING
- CERCLA / RQ: NONE ESTABLISHED.
- MARINE POLLUTANT: THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX A);

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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 OR 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:**

- **STARSEAL BB SEALER**
  - **NPCA-HMIS:** 3 -- SERIOUS
  - **NFPA 704:** 3 -- SERIOUS

<table>
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<th>HAZARD</th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
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<tr>
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<tr>
<td>REACTIVITY</td>
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KEY

4 -- SEVERE

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Page 3 of 3