**SAFETY DATA SHEET**  
**STARSEAL 1315 BEADING FLAT**

**MANUFACTURER:** VEXCON CHEMICALS, INC.  
**ADDRESS:** 7240 STATE RD., PHILA., PA 19135 USA  
**TELEPHONE NO:** 1-800-856-2828 (PolySat)  
**CHEMTREC NO:** 1-800-424-9300 (CCN#23822)  
**EMERGENCY NO:** 1-215-332-7709 (Vexcon)  
**ADDRESS:** 7240 STATE RD., PHILA., PA 19135 USA  
**PREPARED BY:** DARRYL F. MANUEL, PRESIDENT

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**SECTION I - GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:**
**STARSEAL 1315 BEADING FLAT**

**VOC CONTENT:** <200 GRAMS/LITER OR <1.67 #/GLA

**COMMON NAME:** VINYL TOLUENE ACRYLATE POLYMER

**MANUFACTURER:** VEXCON CHEMICALS, INC.
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**TELEPHONE NO:** 1-800-856-2828 (PolySat)
**CHEMTREC NO:** 1-800-424-9300 (CCN#23822)
**PREPARED:** NOVEMBER 1996
**UPDATED:** SEPTEMBER 2016
**PREPARED BY:** DARRYL F. MANUEL, PRESIDENT

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**SECTION II – HAZARD IDENTIFICATION**

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

**SINGLE 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.

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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>
</tr>
</thead>
<tbody>
<tr>
<td>VINYL TOLUENE ACRYLATE POLYMER</td>
<td>25085-34-1</td>
<td>20-30%</td>
<td>ND</td>
</tr>
<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 REL: 500 ppm, 2900 mg/m3 (TWA) NIOSH REL: 350 mg/m3 (TWA)</td>
</tr>
<tr>
<td>EMULSIFIERS</td>
<td>ND</td>
<td>1-5%</td>
<td>NA</td>
</tr>
</tbody>
</table>

**SECTION IV FIRST AID MEASURES**

**HEALTH HAZARD DATA HAZARD CLASSIFICATION**

**BASIS FOR CLASSIFICATION SOURCE**

**ROUTES OF EXPOSURE:**

**HALATION:**
- THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION.
- VAPOR INHALATION CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA OR HEADACHE.
- 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:**
- CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING. 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.

**INGESTION / INHALATION:**
- NOTE: THE THRESHOLD LIMIT VALUE (TLV) OF 100 ppm VAPOR IN AIR HAS BEEN ESTABLISHED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS FOR 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.

**ACUTE OVEREXPOSURE:**
- ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS.
- LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.

**NOTE ABOUT MINERAL SPIRITS OR STODDARD SOLVENT:**

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:**
- FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION. CONSULT A PHYSICIAN.

**SKIN:**
- WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.

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

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**HEALTH** 1  
**FLAMMABILITY** 1  
**REACTIVITY** 0
Land Spill: Eliminate sources of ignition. Prevent additional discharge of material, if possible, to do so without hazard. For small spills, absorb material, then contain and dispose of properly. For large spills, implement clean up procedures and, if in a public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting notify the national response center, prevent leaching into groundwater, surface water, 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 a permit 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.

### Section V Firefighting Measures

**Electro-Static Accumulation Hazard:** Product will burn if temperature exceeds boiling point. Water mix: no unusual hazards. 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:** Use proper grounding. Ventilation 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. 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.

**Unusual Fire and Explosion Hazard:** Keep away from high temperatures, open flames, sparks, sources of ignition, etc. Use with explosion proof equipment is highly advisable.

**Inhalation:** Do not induce vomiting. Seek immediate medical attention.

**Ingestion:** Do not induce vomiting. Seek immediate medical attention.

**Precautionary Statements:** Person 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. Person should avoid inhalation of vapors.

### Section VII Handling and Storage

**Precautionary Statements:** Person 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. Person should avoid inhalation of vapors.

### Section VIII Exposure Controls / Personal Protection

**Ventilation Requirements:** Local mechanical ventilation may be sufficient to keep product vapor concentrations within specified time-weighted vapor 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 contamination 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 cartridges 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 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

**Boiling Point:** (760 mmHg) Range 156-202°C / 313-396°F (Stoddard solvent)

**Vapor Pressure:** 5 mmHg @ 68°F/25°C (Stoddard solvent)

**Melting/Freezing Point:** -40°C / -40°F (Stoddard solvent)

**Evaporation Rate:** (BuAc=1): Slow (Mineral Spirits)

**Density:** (Air=1): 0.1 (Benzene =1)

**Specific Gravity:** (H20=1) N/A

**pH (As Is):** N/A

**Appearance and Odor:** Milky white emulsion with aromatic solvent odor (may contain fugitive dye)

**Flash Point:** (Test Method) 38°C / 100°F (TCC) (Stoddard solvent)

**Autoignition Temp:** 232°C / 450°F (Stoddard solvent)

**Flammable Limits in Air:** % by vol. Lower: 0.8% Upper: 6.0% (Stoddard solvent)
SECTION XI TOXICOLOGICAL INFORMATION

STODDARD SOLVENT

ROUTE OF EXPOSURE CONCLUSION/REMARKS

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

IRRITATION NEGLIGIBLE HAZARD AT AMBIENT/NORMAL HANDLING TEMPERATURES

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

SKIN TOXICITY: LD50 >3180 mg/kg MINIMALLY TOXIC. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS

IRRITATION MAY DRY THE SKIN LEADING TO DISCOMFORT AND DERMATITIS. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS

EYE IRRITATION MAY CAUSE MILD, SHORT-LASTING DISCOMFORT TO EYES. BASED ON TEST DATA FOR STRUCTURALLY SIMILAR MATERIALS.

CHRONIC/OTHER EFFECTS FOR THE PRODUCT ITSELF: VAPOR/AEROSOL CONCENTRATIONS ABOVE RECOMMENDED EXPOSURE LEVELS ARE IRRITATION TO THE EYES AND RESPIRATORY TRACT, MAY CAUSE HEADACHES, DIZZINES, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DEATH. PROLONGED AND/OR REPEATED SKIN CONTACT WITH LOW VISCOSITY MATERIALS MAY DEFAT THE SKIN RESULTING IN POSSIBLE IRRITATION AND DERMATITIS. SMALL AMOUNTS OF LIQUID ASPRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY CAUSE CHEMICAL PNEUMONITIS OR PULMONARY EDEMA.

CONTAINS: NAPHTHALENE: EXPOSURE TO HIGH CONCENTRATIONS OF NAPHTHALENE MAY CAUSE DESTRUCTION OF RED BLOOD CELLS, ANEMIA, AND CATARACTS. NAPHTHALENE CAUSED CANCER IN LABORATORY ANIMALS STUDIES, BUT THE RELEVANCE OF THESE FINDINGS TO HUMAN IS UNCERTAIN. NTP SUS, IARC 2B

ETHYL BENZENE: CAUSED CANCERS IN LABORATORY ANIMALS STUDIES. THE RELEVANCE OF THESE FINDINGS TO HUMANS IS UNCERTAIN. IARC 2B

SECTION XII ECOLOGICAL INFORMATION

STODDARD SOLVENT

THIS INFORMATION GIVEN IS BASED ON DATA AVAILABLE FOR THE MATERIALS, THE COMPONENTS OF THE MATERIAL AND SIMILAR MATERIALS.

ECO-TOXICITY MATERIALS – 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.

PERSISTENCE AND DEGRADABILITY BIODEGRADATION MATERIAL - EXPECTED TO BE INHERENTLY BIODEGRADABLE

HYDROLYSIS MATERIAL – TRANSFORMATION DUE TO HYDROLYSIS NOT EXPECTED TO BE SIGNIFICANT.

PHOTOLYSIS MATERIAL – TRANSFORMATION DUE TO PHOTOLYSIS NOT EXPECTED TO BE SIGNIFICANT

ATMOSPHERIC OXIDATION MATERIAL – EXPECTED TO DEGRADE RAPIDLY IN AIR

SECTION XIII DISPOSAL CONSIDERATIONS

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).

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>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>GROUND</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
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</tr>
<tr>
<td>IATA</td>
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<td>IMDG</td>
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<td>NA</td>
</tr>
<tr>
<td>MARINE POLLUTANT</td>
<td></td>
<td>THIS PRODUCT DOES NOT CONTAIN A MATERIAL. ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B)</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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 (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)

Federal / FDA / USDA:

Marine Pollutants: No. This product does not contain a material on the marine pollutants table (HMT 172.101 Appendix B).

California Prop 65: Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. (Epichlorohydrin, Ethylbenzene, Crystalline Silica particles of respirable size)

CERCLA / RQ: This product does not contain a material on the RQ table (HMT 172.101 Appendix A):

**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.

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**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

<table>
<thead>
<tr>
<th>KEY</th>
<th>STARSEAL 1315 BEADING FLAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 -- SEVERE</td>
<td>NPCA-HMIS</td>
</tr>
<tr>
<td>3 -- SERIOUS</td>
<td>1</td>
</tr>
<tr>
<td>2 -- MODERATE</td>
<td></td>
</tr>
<tr>
<td>1 -- SLIGHT</td>
<td>1</td>
</tr>
<tr>
<td>0 -- MINIMAL</td>
<td>0</td>
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</table>