**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>3</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

---

**SECTION I - GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:**
- **POWERCOAT EPOXY HD WB CLEAR PART A**
- **VOC CONTENT:** <200 GRAMS/LITER OR <1.66 #/GAL
- **COMMON NAME:** EPOXY COATING
- **MANUFACTURER:** VEXCON CHEMICALS, INC
- **ADDRESS:** 7240 STATE RD, PHILADELPHIA, PA 19135
- **PHONE NUMBER:** 215.332.7709 (Vexcon)
- **CHEMTREC NO:** 800.424.9300 (CCN# 23822)
- **PREPARED:** APRIL 2000
- **UPDATED:** NOVEMBER 2017
- **PREPARED BY:** DARYL F. MANUEL, PRESIDENT

**SAFETY DATA SHEET**
**VEXCON NO. CP110**
**POWERCOAT EPOXY HD WB CLEAR PART A**

---

**SECTION II – HAZARD IDENTIFICATION**

**CLASSIFICATION OF MIXTURE**
- FLAMMABLE LIQUID – CATEGORY 4
- ASPIRATION - CATEGORY 1
- SPECIFIC TARGET ORGAN TOXICANT (CENTRAL NERVOUS SYSTEM) – CATEGORY 3
- SPECIFIC TARGET ORGAN TOXICANT (RESPIRATORY IRRITANT) – 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 RESPIRATORY IRRITATION. 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>COMPONENT</th>
<th>CAS NO.</th>
<th>%</th>
<th>HAZARD DATA</th>
<th>UN#</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE ACRYLATE POLYMER</td>
<td>25036-16-2</td>
<td>20-30%</td>
<td>ND</td>
<td>1993</td>
</tr>
<tr>
<td>EPOXY HARDENER</td>
<td>TRADE SECRET</td>
<td>20-40%</td>
<td>CORROSIVE SKIN/ORAL</td>
<td>2735</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (Petroleum), LIGHT AROMATIC (AROMATIC 100)</td>
<td>64742-95-6</td>
<td>1-5%</td>
<td>TLV 50ppm</td>
<td>1268</td>
</tr>
<tr>
<td>PERFORMANCE ADDITIVES (EMULSIFIERS)</td>
<td>N/A</td>
<td>1-5%</td>
<td>ND</td>
<td>N/A</td>
</tr>
<tr>
<td>WATER</td>
<td>N/A</td>
<td>BAL</td>
<td>ND</td>
<td>NONE</td>
</tr>
</tbody>
</table>

**THE AROMATIC SOLVENT PORTION CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NO.</th>
<th>MAX %</th>
<th>HAZARD DATA</th>
<th>UN#</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,4-TRIMETHYL BENZENE (PSEUDOCUMENE)</td>
<td>95-63-6</td>
<td>&lt;32.0%</td>
<td>OSHA PEL: NE</td>
<td>1993</td>
</tr>
<tr>
<td>XYLENES</td>
<td>1330-20-7</td>
<td>&lt;2.2%</td>
<td>OSHA Z1 100ppm (TWA)</td>
<td>1307</td>
</tr>
<tr>
<td>CUMENE</td>
<td>98-82-8</td>
<td>&lt;1.1%</td>
<td>OSHA Z1 50ppm (TWA)</td>
<td>1918</td>
</tr>
</tbody>
</table>

---

**SECTION IV - FIRST AID MEASURES**

**HEALTH HAZARD DATA**

**HAZARD CLASSIFICATION BASES FOR CLASSIFICATION SOURCE**

**ROUTES OF EXPOSURE:**

**INHALATION:**
- 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.

**SKIN CONTACT:**
- THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.

**SKIN ABSORPTION:**
- THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.

**EYE CONTACT:**
- THIS PRODUCT MAY BE AN EYE IRRITANT.

**INGESTION / INHALATION:**
- 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.

**EFFECTS OF OVEREXPOSURE:**
- TLV 50 ppm AR-100
- 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.

**EMERGENCY AND FIRST AID PROCEDURES:**

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

**SKIN:**
- WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
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: ELIMINATE SOURCES OF IGNITION (FLARES, FLAMES, PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP IS COMPLETE. 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. DIKE SPILL AREA WITH SAND OR EARTH TO CONTAIN SPILLED LIQUID AND PREVENT SPREADING. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR WITH ANOTHER SUITABLE ABSORBENT MATERIAL AND SHOVELLED INTO CONTAINERS. 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 EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

OTHER HANDLING AND STORAGE REQUIREMENTS: STORE AND USE IN WELL VENTILATED AREA, EQUIVALENT TO FRESH AIR. KEEP CONTAINERS COOL, DRY, AND AWAY FROM SOURCES OF IGNITION. 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.

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. 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

<table>
<thead>
<tr>
<th>BOILING POINT: (760mmHg)</th>
<th>98.8°C / 210°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>MELTING/FREEZING POINT:</td>
<td>-14 C / 7 F (AR100)</td>
</tr>
<tr>
<td>VAPOR PRESSURE:</td>
<td>478 mmHg @ 25°C (AR100)</td>
</tr>
<tr>
<td>VAPOR DENSITY (Air=1):</td>
<td>4.2 (AR100)</td>
</tr>
<tr>
<td>SOLUBILITY IN H2O % BY WT:</td>
<td>20-30%</td>
</tr>
<tr>
<td>% VOLATILES BY VOL:</td>
<td>20-30%</td>
</tr>
<tr>
<td>EVAPORATION RATE (BuAc=1):</td>
<td>0.27 SLOW (AR100)</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H2O=1):</td>
<td>1.04 TYPICAL</td>
</tr>
<tr>
<td>pH (AR100):</td>
<td>8.5 TYPICAL</td>
</tr>
<tr>
<td>APPEARANCE + ODOR:</td>
<td>PAINT, VARIOUS COLORS, SLIGHTLY SWEET EMULSION ODOR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FLASH POINT: (TEST METHOD)</th>
<th>&gt;100°C / &gt;212°F (TCC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTOIGNITION TEMPERATURE:</td>
<td>N/D</td>
</tr>
<tr>
<td>FLAMMABLE LIMITS IN AIR, % BY VOL:</td>
<td>N/D</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, selected amines, and isocyanates.

### 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

#### ACUTE TOXICITY:

<table>
<thead>
<tr>
<th>Route</th>
<th>Toxicity: LD50</th>
<th>Data Available</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>3000 mg/kg</td>
<td>May cause central nervous system effects. Based on test data for the material.</td>
<td></td>
</tr>
<tr>
<td>Skin</td>
<td>&gt;3160 mg/kg</td>
<td>Minimally toxic. Based on test data for structurally similar materials.</td>
<td></td>
</tr>
<tr>
<td>Eye</td>
<td></td>
<td>May be irritating to the skin with prolonged exposure. Based on test data for the material.</td>
<td></td>
</tr>
</tbody>
</table>

#### CHRONIC/OTHER EFFECTS:

- For the product itself: Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract. May cause headaches, dizziness, 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 aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

- Cumene: Repeated inhalation exposure of cumene vapor produced damage in kidney of male rats only. The effects are believed to be species specific and are not relevant to humans.

SECTION XII ECOTOLOGICAL INFORMATION

#### ECOTOxicITY
- 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.

#### PERSISTENCE AND DEGRADABILITY
- Material expected to be readily 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

#### 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>
<td>NA</td>
</tr>
<tr>
<td>IATA</td>
<td>AIR</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
<td>NA</td>
</tr>
<tr>
<td>IMDG</td>
<td>OCEAN</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
<td>NA</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 64742-95-6 (aromatic 100).
- **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 (aromatic solvent naphtha).
- **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 contain a material on the marine pollutants table (HMT 172.101 appendix B) (aromatic 100).
- **CALIFORNIA PROP 65**: Warning: This product, if pigmented or matte, contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. (Crystalline Silica particles of respirable size)
- **CERCLA / RQ**: None established.
- **THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE RQ TABLE (HMT 172.101 APPENDIX B)** (AROMATIC 100).
### SECTION XVI OTHER INFORMATION

<table>
<thead>
<tr>
<th>PREPARED BY</th>
<th>DARRYL MANUEL / PRESIDENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPANY</td>
<td>VEXCON CHEMICALS, INC.</td>
</tr>
<tr>
<td>ADDRESS</td>
<td>7240 STATE RD., PHILA., PA 19135 USA</td>
</tr>
</tbody>
</table>

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></th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWERCOAT EPOXY</strong>&lt;br&gt;<strong>HD WB PART A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**KEY**

- 4 -- Severe
- 3 -- Serious
- 2 -- Moderate
- 1 -- Slight
- 0 -- Minimal
SAFETY DATA SHEET
VEXCON NO. CP110
POWERCOAT EPOXY HD WB CLEAR PART B

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:
POWERCOAT EPOXY HD WB CLEAR PART B

VOC CONTENT: <200 GRAMS/LITER OR <1.66 #/GAL

CATEGORY: INDUSTRIAL MAINTENANCE COATING

COMMON NAME: EPOXY COATING

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: DARRY F. MANUEL , PRESIDENT

UPDATED: NOVEMBER 2017

PREPARED BY: DARRY F. MANUEL, PRESIDENT

SECTION II – HAZARD IDENTIFICATION

CLASSIFICATION OF MIXTURE
FLAMMABLE LIQUID – CATEGORY 3
CARCINOGEN – CATEGORY 2
SPECIFIC TARGET ORGAN TOXICANT (CENTRAL NERVOUS SYSTEM) – CATEGORY 3
SPECIFIC TARGET ORGAN TOXICANT (RESPIRATORY IRRITANT) – CATEGORY 3
ASPIRATION TOXICANT – CATEGORY 1

SINGLE WORD: DANGER

HAZARD STATEMENTS: FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTER AIRWAYS. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWNSINES OR DIZZINESS. SUSPECTED OF CAUSING CANCER.

ENVIRONMENTAL HAZARDS: EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

PRECAUTIONARY STATEMENT: FLAMMABLE 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. KEEP AWAY FOR HEAT/SPARKS/OPEN FLAMESHOT SURFACES – NO SMOKING

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>BISPHENOL A EPOXY RESIN</td>
<td>2068-38-6</td>
<td>70-90%</td>
<td>ND</td>
<td>N/A</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (Petroleum), LIGHT AROMATIC</td>
<td>64742-95-6</td>
<td>5-15%</td>
<td>TLV 50 ppm</td>
<td>1268</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOPROPYL ETHER (PROPYL CELLSOLVE)</td>
<td>002807-30-9</td>
<td>5-10%</td>
<td>OSHA HAZARD: COMBUSTIBLE LIQUID Diva HZD 20 ppm TWA ILO 20 ppm, 86 mg/m3</td>
<td>993</td>
</tr>
<tr>
<td>CYCLOHEXANONE</td>
<td>108-94-1</td>
<td>1-5%</td>
<td>OSHA REL 20 ppm, 80 mg/m3</td>
<td>1915</td>
</tr>
</tbody>
</table>

REACTIVITY:

| FLAMMABILITY | 2 |
| REACTIVITY | 0 |

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. DIZZINESS, WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION.

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

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

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 100 ppm AROMATIC 100 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 INJURY DEVELOPS AND MATERIALS IS INHERENTLY TOXIC.

INHALATION: MOVE TO LOCATION FREE FROM VAPORS. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION V FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE EXTINGUISHED BY USE OF CARBON DIOXIDE, DRY CHEMICALS, STEAM, OR WATER FOAM. CAUTION: DRY CHEMICALS MUST NOT BE USED FOR FIGHTING ELECTRIC OR FLAMMABLE LIQUID FIRES.

GENERAL HAZARD: COMBUSTIBLE 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 SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE OR CAUSE INJURY OR DEATH. EMPTIED DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.

SECTION VI ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: ELIMINATE SOURCES OF IGNITION (FLAMES, PILOT LIGHTS, ELECTRICAL SPARKS). 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. Dike spill area with sand or earth to contain spilled liquid and prevent spreading. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR WITH ANOTHER SUITABLE, DRIED BEFORE REUSE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPITIED SINCE EMPITIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE FOLLOWED. USE OF 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 EMPITIED SINCE EMPITIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE FOLLOWED. USE OF EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

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 NOT 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. IMPEERMEABLE GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR PVA.

SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: (760mmHg) RANGE: 161-171°C / 322-340 F (AR100)

VAPOR PRESSURE: 1.97 mmHg@68°F/20°C (AR100)

SOILBILITY IN H2O % BY WT: 40-60%

EVAPORATION RATE (BuAc=1): 0.27 SLOW (AR100)

SPECIFIC GRAVITY (H2O=1): 0.95

PH (AS IS): N/A

PH (1% SOLN): N/A

APPEARANCE AND ODOR: CLEAR LIQUID WITH AROMATIC ODOR

FLASH POINT: (TEST METHOD) >42°C / >108°F (TCC) (AR100)

AUTOIGNITION TEMP: 479°C / 894°F (AR100)

FLAMMABLE LIMITS IN AIR, % BY VOL: LOWER: 0.9% UPPER: 6.2% (AR100)
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 minerals.
- **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:** Data available. May cause central nervous system effects, based on test data for the material.
  - **IRRITATION:** Data available. May be irritating to the respiratory tract. The effects are reversible, based on test data for structurally similar materials.

- **INGESTION**
  - **TOXICITY:** LD50 3,000 mg/kg. Minimally toxic, based on test data for structurally similar materials.

- **SKIN**
  - **TOXICITY:** LD50 >3160 mg/kg. Minimally toxic, based on test data for the material.
  - **IRRITATIONS:** Data available. Mild irritation to skin with prolonged exposure. Based on test data for the material.

- **EYE**
  - **IRRITATION DATA AVAILABLE:** May cause mild, short-lasting discomfort to eyes. Based on test data for the material.

- **CHRONIC/OTHER EFFECTS**
  - For the product itself: Vapors, aerosols, concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous systems effects including death. Prolonged and/or repeated skin contact with low viscosity materials may defect the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or vomit may cause chemical pneumonitis or pulmonary edema.

- **CONTAINS**
  - Cumene: repeated inhalation exposure of cumene vapor produced damage in kidney of male rats only. The effects are believed to be species specific and are not relevant to humans.

SECTION XII ECOLOGICAL INFORMATION

- **ECOTOXICITY**
  - 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.

- **PERSISTENCE AND DEGRADABILITY**
  - Material expected to be readily biodegradable.

- **BIODEGRADATION**
  - Material transformation due to hydrolysis not expected to be significant.

- **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

- **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.

- **MARINE POLLUTANT:** This product does contain a material on the marine pollutants table (HMT 172.101 Appendix B) aromatic 100.

SECTION XIV TRANSPORTATION 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 64742-95-6 (aromatic 100).

- **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 202-426-2875.

- **ADDITIONAL REGULATORY CONCERNS:** (federal, FDA, USDA, CPSC, state, others).

- **MARINE POLLUTANTS:** No. This product does not contain a material on the marine pollutants table (HMT 172.101 Appendix B), see section XIV.

- **This product contains:** Xylene, cumene, and trimethylbenzene.

- **CERCLA:** 5000 pounds (glycol ethers).

- **TSCA:** Is this product, or all its ingredients, being certified for inclusion on the toxic substances control ACT inventory of chemical substances? Yes.

SECTION XV REGULATORY 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:**

- **POTTERCOAT EPOXY**
  - **HD WB PART B**
  - **NPCA-HMIS:** 3 – SERIOUS.
  - **NFPA 704:** 4 – SEVERE.

- **HEALTH:** 2 2 2 – MODERATE.

- **FLAMMABILITY:** 2 2 1 – SLIGHT.

- **REACTIVITY:** 0 0 0 – MINIMAL.