SAFETY DATA SHEET
VEXCON NO. CP103
POWERCOAT EPOXY HD PIGMENTED PART A

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:
POERCOAT EPOXY HD PIGMENTED PART A

VOC CONTENT: <340 GRAMS/LITER OR <2.93 #/GAL (AS APPLIED)
PART A ONLY: <340G/L (50%)

CATEGORY: INDUSTRIAL MAINTENANCE COATING

COMMON NAME: EPOXY COATING FOR CONCRETE

MANUFACTURER: VEXCON CHEMICALS, INC

ADDRESS: 7280 STATE RD, PHILADELPHIA, PA 19135

EMERGENCY NO: 800.858.2828 (PolySat Inc)

CHEMTREC NO: 800.424.9300 (CCN# 23822)

PREPARED: MAY 1996

UPDATED: NOVEMBER 2017

PREPARED BY: DARRY F. MANUEL, PRESIDENT

SECTION III - HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS | CAS NO. | % | HAZARD DATA | UN#
---|---|---|---|---
STYRENE ACRYLATE POLYMER 25036-16-2 40-60% ND 1993
2.6 DIMETHYL-4-HEPTANONE 108-83-8 5-10% ACGIH TLV: 25 ppm (TWA) OSHA PEL: 50 ppm, 290 mg/m3 (TWA) NIOSH REL: 25 ppm, 150 mg/m3 (TWA) 1157
MODIFIED ALPHATIC AMINE 68610560 5-10% CORROSIVE SKIN/ORAL N/A
SOLVENT NAPHTHA (Petroleum), LIGHT AROMATIC 64742-95-6 5-15% TLV 50ppm OSHA HAZARD: COMBUSTIBLE LIQUID 1268
ETHYLENE GLYCOL MONOPROPYL ETHER (PROPYL CELLOSOLVE) 002807-30-9 1-5% OSHA HAZARD: COMBUSTIBLE LIQUID Dow IHG 20 ppm TWA NIOSH REL 150 ppm, 150 mg/m3 1993

PERFORMANCE ADDITIVES N/A 1-5% N/D N/A

(AR100) THE AROMATIC SOLVENT PORTION CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:

COMPONENT | CAS NO. | MAX % | HAZARD DATA | UN#
---|---|---|---|---
1,2,4-TRIMETHYL BENZENE (PSEUDOCUMENE) 95-63-6 <32.0% DOT LABEL: FLAMMABLE LIQUID OSHA PEL Not Estab. ACGIH TLV 26 ppm (TWA) NIOSH REL: 25 ppm (TWA) SARA SECTION 313 1993
XYLENES 1330-20-7 <2.2% DOT LABEL: FLAMMABLE LIQUID OSHA Z1 100ppm (TWA) ACGIH TLV 100 ppm (TWA) NIOSH REL 100 ppm (TWA) SARA SECTION 313 SARA 100 lbs 1307
CUMENE 98-82-8 <1.1% OSHA Z1 50ppm (TWA) ACGIH TLV 50ppm (TWA) SARA SECTION 313 1918

PIGMENTS

COMPONENT | CAS NO. | % | HAZARD DATA | UN#
---|---|---|---|---
TITANIUM DIOXIDE (TiO2) 1363-67-1 20-40% OSHA PEL: 15mg/m3 (total dust) ACGIH TLV: 15mg/m3 (total dust) NONE
ALCIUM CARBONATE 1317-65-3 1-5% OSHA TWA 5.0 mg/m3 RESPIRABLE OSHA TWA 15.0 mg/m3 TOTAL NONE
ADDITIONAL PIGMENTS VARY BY PRODUCT COLOR N/A 1-5% OSHA PEL: 15mg/m3 (total dust) ACGIH TLV: 15mg/m3 (total dust) NONE

SINGLE WORD: DANGER

HAZARD STATEMENTS: FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTER AIRWAYS. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS 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 FLAMES HOT SURFACES NO SMOKING
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. AROMATIC 100 SOLVENT COMPONENT.

SKIN CONTACT: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. AROMATIC 100 SOLVENT COMPONENT.

SKIN ABSORPTION: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. AROMATIC 100 SOLVENT COMPONENT.

EYE CONTACT: THIS PRODUCT MAY BE AN EYE IRITANT. AROMATIC 100 SOLVENT COMPONENT.

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.

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

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 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 CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS, STEAM, OR WATER FOG. 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.

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 AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.

USE PROPER GROUNDING

SECTION VI  ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: ELIMINATE SOURCES OF IGNITION (FLARES, 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 SPILLS, 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 OTHER CLOTHING AND EQUIPMENT. AVOID EXPOSURE OF HOT METAL SURFACES. SAFE GUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY. USE PROPER GROUNDING.

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, (ELECTRICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR OTHER SOURCES OF IGNITION.

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 VIII  EXPOSURE CONTROLS / PERSONAL PROTECTION
**SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS**

- **Boiling Point:** (760mm Hg) 161-171°C / 322-340°F (AR100)
- **Melting/Freezing Point:** -14°C / 7°F (AR100)
- **Vapor Pressure:** 1.97 mmHg @ 68°F / 20°C (AR100)
- **Solubility in H2O % by wt:** N/A
- **Evaporation Rate (BuAc=1):** Specific Gravity (H2O=1)
- **pH (AS IS):** 0.27 SLOW (AR100)
- **pH (1% Soln):** 1.97 mmHg@68°F/20°C  (AR100)
- **Appearance and Odor:** Sweet Petroleum Odor

**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**

**Route of Exposure**

- **Inhalation**
  - Toxicity: May cause central nervous system effects. Based on test data for the material
- **Irritation:** May be irritating to the respiratory tract. The effects are reversible. Based on test data for structurally similar materials.
- **Ingestion**
  - Toxicity: LD50 >3000 mg/kg 
  - Minimally toxic based on test for structurally similar materials
- **Skin**
  - Toxicity: LD50 >3160 mg/kg
  - Minimally toxic based on test data for the material
- **Irritation:** Mildly irritating to skin with prolonged exposure. Based on test data for the material
- **Eye**
  - Irritation: May cause mild, short-lasting discomfort to eyes. Based on test data for the material
- **Chronic/Other Effects**
  - Vapor/Aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, sizziness, anesthesis, drowsiness, unconsciousness, and other central nervous system effects including death.
  - Prolonged and/or repeated skin contact with low viscous materials may defat the skin resulting in possible irritation and dermatitis.
  - Small amounts of liquid aspirated into the lungs during ingestion of from

- **CONTAINS:** VOMITING MAY CAUSE CHEMICAL PNEUMONITIS OR PULMONARY EDEMA.

**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
- **Persistency and Degradability:**
  - **Biodegradation:** Material – Expected to 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**

- **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>Packin g Group</th>
<th>Quantity Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>GROUND (NON-BULK)</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
<td>NA</td>
<td>ORMID – Max 30kg gross wt (66lbs)</td>
</tr>
<tr>
<td>IATA</td>
<td>AIR</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3, III</td>
<td></td>
<td>Passenger Aircraft – 60L Cargo Aircraft – 220L</td>
</tr>
<tr>
<td>IMDG</td>
<td>OCEAN</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3, III</td>
<td></td>
<td>Marine Pollutant: THIS PRODUCT DOES CONTAIN A MATERIAL: ON THE MARINE POLLUTANTS TABLE (HMT 172/101 APPENDIX B) AROMATIC 100</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 (Stoddard solvent, 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)

**FEDERAL / FDA / USDA:** Marine pollutants: YES. This product does contain a material on the Marine Pollutants Table (HMT 172.101 Appendix B). See Section XIV.

**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

<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:


<table>
<thead>
<tr>
<th>POWERCOAT EPOXY HD PIGMENTED PART A</th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
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<tbody>
<tr>
<td>HEALTH</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**KEY**

4 – SEVERE

3 – SERIOUS

2 – MODERATE

1 – SLIGHT

0 – MINIMAL
SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:
POWERCOAT EPOXY HD PIGMENTED PART B

VOC CONTENT: <340 GRAMS/LITER OR <2.83 #/GAL (AS APPLIED)
PART B ONLY: <340 g/L (50%)

CATEGORY: INDUSTRIAL MAINTENANCE COATING

COMMON NAME: EPOXY COATING FOR CONCRETE

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: MAY 1996

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 DROWSINESS 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 FLAMES/HOT 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>25068-38-6</td>
<td>60-80%</td>
<td>ND</td>
<td>N/A</td>
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<tr>
<td>ETHYLENE GLYCOL MONOPROPYL ETHER (PROPYL CELLSOLVE)</td>
<td>002807-30-9</td>
<td>5-10%</td>
<td>OSHA HAZARD: COMBUSTIBLE LIQUID</td>
<td>Dow IHG 20 ppm TWA ILO 20 ppm, 86 mg/m3</td>
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<tr>
<td>SOLVENT NAPHTHA (Petroleum), LIGHT AROMATIC</td>
<td>64742-95-6</td>
<td>5-15%</td>
<td>TLV 50 ppm</td>
<td>OSHA HAZARD: COMBUSTIBLE</td>
</tr>
<tr>
<td>PERFORMANCE ADDITIVES</td>
<td>N/A</td>
<td>1-5%</td>
<td>N/D</td>
<td>N/A</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>DOT LABEL</th>
<th>HAZARD DATA</th>
<th>UN#</th>
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</thead>
<tbody>
<tr>
<td>1,2,4-TRIMETHYL BENZENE (PSEUDOCUMENE)</td>
<td>95-63-6</td>
<td>&lt;32.0%</td>
<td>DOT LABEL: FLAMMABLE LIQUID</td>
<td>OSHA PEL Not Estab. ACGIH TLV 25 ppm (TWA) NIOSH REL: 25 ppm (TWA) SARA SECTION 313</td>
<td>1993</td>
</tr>
<tr>
<td>XYLENES</td>
<td>1330-20-7</td>
<td>&lt;2.2%</td>
<td>DOT LABEL: FLAMMABLE LIQUID</td>
<td>OSHA Z1 100ppm (TWA) ACGIH TLV 100ppm (TWA) NIOSH REL 100 ppm (TWA) SARA SECTION 313</td>
<td>1307</td>
</tr>
<tr>
<td>CUMENE</td>
<td>98-82-6</td>
<td>&lt;1.1%</td>
<td>OSHA Z1 50ppm (TWA) ACGIH TLV 50ppm (TWA)</td>
<td>SARA SECTION 313</td>
<td>1918</td>
</tr>
</tbody>
</table>
SECTION IV  FIRST AID MEASURES

UNUSUAL FIRE AND EXPLOSION HAZARD:

NO UNUSUAL HAZARDS. 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 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. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

SECTION V  FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS, STEAM, OR WATER FOG. 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.

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 AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.

USE PROPER GROUNDING

SECTION VI  ACCIDENTAL RELEASE MEASURES

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, WATERCOURSES, 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 AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, 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 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.

FIREFIGHTING: 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 HIGH TEMPERATURES, OPEN FLAMES, SPARKS, SOURCES OF IGNITION, ETC. USE WITH EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

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**SECTION VII 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. Impermeable 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 X PHYSICAL / CHEMICAL CHARACTERISTICS**

**BOILING POINT:** (760mmHg) 313-355°F/156-179°C

**MELTING/FREEZING POINT:** N/A

**VAPOR PRESSURE:** 2.70 mmHg @20°F/-6°C

**VAPOR DENSITY (AIR=1):** 4.3

**SOLUBILITY IN H2O % BY WT:** INSOLUBLE

**% VOLATILES BY VOL:** 40-60%

**EVAPORATION RATE (BuAc=1):** 313-355

**SPECIFIC GRAVITY (H2O=1):** 1.1

**PH (AS IS):** N/A

**pH (% SOLN):** N/A

**APPEARANCE AND ODOR:** Clear liquid with sweet / aromatic odor

**FLASH POINT:** (TEST METHOD) 43°C / 111°F (TCC)

**AUTOIGNITION TEMP:** 869°F / 465°C

**FLAMMABLE LIMITS IN AIR, % BY VOL:** LOWER: 1.0%  UPPER: 7.0%

**SECTION XI 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**

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

**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.

**PRESISTENCE AND DEGRADABILITY:** Material – expected to degrade rapidly in air.

**BIODEGRADATION:** Material – expected to 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**

**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.
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MARINE POLLUTANT: THIS PRODUCT DOES CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B) AROMATIC 100

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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 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.

**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:** YES, THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B).

**CERCLA / RQ:** NONE ESTABLISHED. 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

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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 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:**

**TSCA:** IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? YES

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**KEY**

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