SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:
POWERCOAT EPOXY HD AIM CLEAR PART A

VOC CONTENT: AS APPLIED:<300 GRAMS/LITER OR <2.50 #/GAL
PART A ONLY: 380 g/L (37%) PART B ONLY: 220 g/L (63%)

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: DECEMBER 2019

PREPARED BY: DARRYL F. MANUEL, PRESIDENT

SECTION II – HAZARD IDENTIFICATION

CLASSIFICATION OF MIXTURE

FLAMMABLE LIQUIDS – CATEGORY 2
ACUTE TOXICITY; INHALATION – CATEGORY 4
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY – SINGLE EXPOSURE – CATEGORY 3
ACUTE AQUATIC TOXICITY – CATEGORY 3

SINGLE WORD: DANGER

HAZARD STATEMENT: HIGHLY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWNING 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.

SECTION III HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>MATERIAL OR COMPONENTS</th>
<th>CAS NO.</th>
<th>% HAZARD DATA</th>
<th>UN#</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE ACRYLATE POLYMER</td>
<td>25036-16-2</td>
<td>40-50%</td>
<td>ND</td>
</tr>
<tr>
<td>TERTIARY BUTYL ACETATE</td>
<td>540-88-5</td>
<td>10-20%</td>
<td>OSHA HAZARD: FLAMMABLE LIQUID OSHA PEL: 200 ppm ACGIH TLV: 200 ppm</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (Petro), LIGHT AROMATIC (AROMATIC 100)</td>
<td>64742-95-6</td>
<td>10-20%</td>
<td>TLV 50ppm OSHA HAZARD: COMBUSTIBLE LIQUID EXXON/MOBIL RCP 19ppm (TWA)</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOPROPYL ETHER</td>
<td>2807-30-9</td>
<td>5-15%</td>
<td>OSHA HAZARD: COMBUSTIBLE LIQUID Dow IHG 20 ppm TWA ILO 20 ppm, 86 mg/m3</td>
</tr>
<tr>
<td>MODIFIED ALIPHATIC AMINE</td>
<td>6861056</td>
<td>5-10%</td>
<td>CORROSIVE SKIN/ORAL</td>
</tr>
</tbody>
</table>

(AR100) 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>2.5%</td>
<td>OSHA PEL: NE ACGIH TLV: 25ppm (TWA)</td>
<td></td>
</tr>
<tr>
<td>XYLENES</td>
<td>1330-20-7</td>
<td>&lt;2.2%</td>
<td>OSHA Z1 100ppm (TWA) ACGIH TLV 100ppm (TWA) NIOSH REL 100 ppm (TWA)</td>
<td></td>
</tr>
<tr>
<td>CUMENE</td>
<td>98-82-8</td>
<td>&lt;1.1%</td>
<td>OSHA Z1 50ppm (TWA) ACGIH TLV 50ppm (TWA)</td>
<td></td>
</tr>
</tbody>
</table>

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. VAPOR INHALATION CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA OR HEADACHE. Tertiary Butyl Acetate and AR100 Components

SKIN CONTACT:
THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. Tertiary Butyl Acetate and AR100 Components

SKIN ABSORPTION:
THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. Tertiary Butyl Acetate and AR100 Components
**SECTION III PHYSICAL AND CHEMICAL PROPERTIES**

**APPLICATIONS:**
- This product may be an eye irritant. Tertiary Butyl Acetate and AR100 Components.

**INHALATION / INGESTION**

**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. 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. Consult a physician.

**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.

**STEP 1: DISPOSAL OF RECOVERED MATERIAL**
- Follow local regulations. Do not store or consume this material. Keep work areas and safety showers in work areas recommended.

**STEP 2: 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.

**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:**
- Use regular foam, carbon dioxide, dry chemicals or water spray.

**FLAMMABLE:**
- Combustible materials at temperatures at or above the flash point.

**GENERAL HAZARD:**
- 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 properly returned to a drum reconditioner, or properly disposed of.

**UNUSUAL FIRE AND EXPLOSION HAZARD:**
- Keep work areas free of hot metal surfaces and other sources of ignition.

**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 accidental release of material. If possible to do so without hazard. For small spills, implement cleanup procedures. Use water spray to cool exposed containers and/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, flocculants, or a compatible water-based absorbing material. Do not fill containers, consult a hazardous waste expert for disposal of recovered material and ensure conformity to EPA, federal, state, and local disposal regulations.

**SECTION VII HANDLING AND STORAGE**

**PRECAUTIONARY STATEMENTS:**
- Personal 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. Personnel should be protected from contact with these fires.

**OTHER HANDLING AND STORAGE REQUIREMENTS:**
- Store 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 USHA 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, 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point: (760mmHg)</td>
<td>98°C / 208°F (TBAc)</td>
</tr>
<tr>
<td>Melting/Freezing Point:</td>
<td>-62°C / 79°F (TBAc)</td>
</tr>
<tr>
<td>Vapour Pressure:</td>
<td>41.5 mmHg@68°F/25°C (TBAc)</td>
</tr>
<tr>
<td>Vapour Density (Air=1):</td>
<td>4.0 (TBAc)</td>
</tr>
<tr>
<td>Solubility in H2O % by wt:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Evaporation Rate (BuAc=1):</td>
<td>Real relative density (H2O=1)=0.94</td>
</tr>
<tr>
<td>pH (AS IS):</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance and Odor:</td>
<td>Clear liquid with slightly sweet solvent odor</td>
</tr>
<tr>
<td>pH (1% Soln):</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water % by wt:</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>4°C / 39°F (TCC) (TBAc)</td>
</tr>
<tr>
<td>Flash Point: (Test Method):</td>
<td>4°C / 39°F (TCC) (TBAc)</td>
</tr>
<tr>
<td>Autoignition Temp:</td>
<td>517°C / 964°F (TBAc)</td>
</tr>
<tr>
<td>Flammable Limits in Air, % by vol:</td>
<td>Lower: 1.2% Upper: 6.9% (TBAc)</td>
</tr>
</tbody>
</table>

SECTION X STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Conditions Contributing to Instability:</th>
<th>This product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatibility:</td>
<td>This product is incompatible with strong oxidizing agents, strong acids or bases, and selected amines.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products:</td>
<td>Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, and unidentified organics.</td>
</tr>
<tr>
<td>Conditions Contributing to Hazardous Polymerization:</td>
<td>N/A will not occur</td>
</tr>
</tbody>
</table>

SECTION XI TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Acute Toxicity</th>
<th>LC50/96 Hours</th>
<th>ONCORHYN HOURS</th>
<th>ACUTE TOXICITY TO FISH IS LOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 (VAPOR)</td>
<td>4211 ppm</td>
<td>6 HOURS</td>
<td></td>
</tr>
<tr>
<td>LD50 (ORAL)</td>
<td>4500 MG/KG BWT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 (RABBIT)</td>
<td>&gt;2500 MG/KG BWT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Acute Effects

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 overexposure). Inhalation of airborne droplets may cause irritation 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.

Sensitization: Does not induce skin sensitization.

Repeateed Does Toxicity: This substance is not toxic to reproduction. The reproductive toxicity

SECTION XII ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Acute Toxity to Aquatic Invertebrates</th>
<th>EC50/48 Hours</th>
<th>DAPHNIA MAGNE 350 mg/l</th>
<th>LOW ACUTE TOXICITY TO AQUATIC INVERTEBRATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 (VAPOR)</td>
<td>4211 ppm</td>
<td>6 HOURS</td>
<td></td>
</tr>
<tr>
<td>LD50 (ORAL)</td>
<td>4500 MG/KG BWT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 (RABBIT)</td>
<td>&gt;2500 MG/KG BWT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Toxicity to Aquatic Plants

EC50/96 Hours: Pseudokirchneriella subcapitata TA 60 mg/l

Low Toxicity to Algae

EC50/96 Hours: Pseudomonas putida 78 mg/l

Low Toxicity to Bacteria

EC50/96 Hours: Entosiphon sulcatum 970 mg/l

Chronic Toxicity to Fish

No Data Available

Chronic Toxicity to Aquatic Invertebrates

Non Data Available

Other Adverse Effects

Expected to show low toxicity to higher plants

Environmental Fate and Pathways

Expected to be emitted and partition predominantly to the atmosphere. Accidental releases to water or soil are expected to evaporate and undergo atmospheric decomposition processes.

Mobility

Behavior in environmental compartments; released material would be expected to show high soil mobility and to volatilize readily from soil near surface waters, forming atmospheric vapor.

Genetic Toxicity

Negative for genotoxicity using both in vitro and in vivo tests.

Developmental Toxicity

Specific data not available. T-BUTYL ACETATE IS AN ANIMAL CARCINOGEN. IN DRINKING WATER STUDY, T-BUTANOL INDUCED BEGGIN KIDNEY TUMORS IN MALE RATS VIA AN α-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 HUMAN. THIS SUBSTANCE IS NOT CLASSIFIED FOR CARCINOGENICITY BY IARC, OSHA, NTP OR THE EPA.
Persistency and Degradability

Biodegradation: Expected to hydrolyze slowly in water (half-life ca 0.5 years or longer). Atmospheric vapors expected to be photochemically degraded by reaction with hydroxyl radicals (half-life < 19.7 days). Inherently biodegradable.

Biodegradation: Expected to hydrolyze slowly in water (half-life ca 0.5 years or longer). Atmospheric vapors expected to be photochemically degraded by reaction with hydroxyl radicals (half-life < 19.7 days). Inherently biodegradable.

Bioaccumulation: Bioconcentration factor (BCF) calculated value) this material is not expected to bioaccumulate.

Other Adverse Effects

This material is not considered persistent by EPA, and is not expected to contribute to the greenhouse gas effect, stratospheric ozone depletion, tropospheric ozone formation, or particulate matter formation.

Section XIII Disposal Considerations

Aquatic Toxicity (e.g., 96hr, LTM): Do not discharge this product into public water 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>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>GROUND</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td>II</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</td>
<td>II</td>
<td>Passenger Aircraft - 50L, Cargo Aircraft - 60L</td>
</tr>
<tr>
<td>IMDG</td>
<td>OCEAN</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td>II</td>
<td></td>
</tr>
</tbody>
</table>

Section XV Regulatory Information

HMS Hazard Ratings:

This information is for people trained in national paint and coatings associations (NPCA) hazardous materials identification system (HMS) national fire protection association (NFPA 704) identification of fire hazards of materials

Powercoat Epoxy HD AIM Clear Part A

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Key

1 -- slight
2 -- moderate
3 -- serious
4 -- severe
SAFETY DATA SHEET

VECON NO. CP103-AIM
POWERCOAT EPOXY HD AIM
CLEAR PART B

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:

POWERCOAT EPOXY HD AIM CLEAR PART B

VOC CONTENT: AS APPLIED: 300 GRAMS/LITER OR <2.50 #/GAL
PART A ONLY: 380 g/L (37%)
PART B ONLY: 220 g/L (63%)

CATEGORY: INDUSTRIAL MAINTENANCE COATING

COMMON NAME: EXPoxy 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: DECEMBER 2019

PREPARED BY: DARRY F. MANUEL, PRESIDENT

CLASSIFICATION OF MIXTURE

FLAMMABLE LIQUIDS – CATEGORY 2
ACUTE TOXICITY: INHALATION – CATEGORY 4
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY – SINGLE EXPOSURE – CATEGORY 3
ACUTE AQUATIC TOXICITY – CATEGORY 3

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.

SECTION II – HAZARD IDENTIFICATION

Material or Components | CAS NO. | % | HAZARD DATA | UN#
--- | --- | --- | --- | ---
BISPHENOL A / EPICHLOROHYDRIN EPOXY RESIN | 25068-38-6 | 65-75% | NOT ESTABLISHED | N/A
TERTIARY BUTYL ACETATE | 540-88-5 | 10-15% | OSHA HAZARD: FLAMMABLE LIQUID | 1123
ETHYLENE GLYCOL MONOPROPYL ETHER | 002807-30-9 | 1-5% | OSHA HAZARD: COMBUSTIBLE | 1993
CYCLOHEXANONE | 108-94-1 | 1-5% | OSHA PEL 50 ppm, 200 mg/m3 TWA | 1915
SOLVENT NAPTHHA (Petroleum), LIGHT AROMATIC | 64742-95-6 | 10-15% | TLY 50 PPM | 1268

THE 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 | 1.5% | DOT LABEL: FLAMMABLE LIQUID, OSHA PEL not regulated | 1993
XYLENES | 1330-20-7 | 2.2% | DOT LABEL: FLAMMABLE LIQUID | 1307
CUMENE | 98-82-8 | <1.1% | | 1918

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. VAPOR INHALATION CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA OR HEADACHE. Tertiary Butyl Acetate and AR100 Components

SKIN CONTACT: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. Tertiary Butyl Acetate and AR100 Components
SKIN ABSORPTION: THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. Tertiary Butyl Acetate and AR100 Components

EYE CONTACT: THIS PRODUCT MAY BE AN EYE IRRITANT. Tertiary Butyl Acetate and AR100 Components

INGESTION / INHALATION: CAN CAUSE STOMACH IRRITATION, NAUSEA, VOMITING. SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION, OR FROM VOMITING, MAY CAUSE BRONCHOSPASM (CHLOROFORM 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. PROLONGED CONTACT ON THE SKIN WILL CLAY AND DEFEAT 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. CONSULT A PHYSICIAN.

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 IS DIFFICULT, GIVE OXYGEN. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.

INHALATION: NOTE: THIS MATERIAL RELEASES ETHYL ALCOHOL UPON HYDROLYSIS. ETHYL ALCOHOL CAUSES OPTIC NEUROPATHY, METABOLIC ACIDOSIS AND RESPIRATORY DEPRESSION. SIGNS AND SYMPTOMS OF OVEREXPOSURE INCLUDE HEADACHE, BLURRED VISION, CONTRACTED VISUAL FIELDS, SHORTNESS OF BREATH, DIZZINESS AND VERTIGO.

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

SECTION VI ACCIDENTAL RELEASE MEASURES

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.

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. PERSONNEL SHOULD AVOID INHALATION OF VAPORS.

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 EXCISION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

SECTION VII HANDLING AND STORAGE

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 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 ARE RECOMMENDED.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point: (760mmHg)</td>
<td>98°C / 208°F (TBAc)</td>
</tr>
<tr>
<td>Melting/Freezing Point:</td>
<td>−62°C / 79°F (TBAc)</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>41.5 mmHg/087°F/25°C (TBAc)</td>
</tr>
<tr>
<td>Vapour Density (Air=1):</td>
<td>4.0 (TBAc)</td>
</tr>
<tr>
<td>Solubility in H2O % by WT:</td>
<td>% Volatiles by Vol: 45-55%</td>
</tr>
<tr>
<td>Insoluble</td>
<td></td>
</tr>
<tr>
<td>Appearance and Odor:</td>
<td></td>
</tr>
<tr>
<td>pH (AS IS):</td>
<td></td>
</tr>
<tr>
<td>pH (1% Soln):</td>
<td>0.94</td>
</tr>
<tr>
<td>EVAPORATION RATE (BuAc=1):</td>
<td></td>
</tr>
<tr>
<td>VAPOR PRESSURE:</td>
<td></td>
</tr>
<tr>
<td>BOILING POINT:</td>
<td>98°C / 208°F (TBAc)</td>
</tr>
<tr>
<td>pH (AS IS):</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance and Odor:</td>
<td></td>
</tr>
<tr>
<td>pH (1% Soln):</td>
<td></td>
</tr>
<tr>
<td>pH:</td>
<td></td>
</tr>
<tr>
<td>APPEARANCE AND ODOR:</td>
<td></td>
</tr>
<tr>
<td>pH (AS IS):</td>
<td>N/A</td>
</tr>
<tr>
<td>pH (1% Soln):</td>
<td></td>
</tr>
<tr>
<td>pH:</td>
<td></td>
</tr>
<tr>
<td>FLASH POINT: (TEST METHOD)</td>
<td>4°C / 39°F (TCC) (TBAc)</td>
</tr>
<tr>
<td>Autoignition Temp:</td>
<td>517°C / 964°F (TBAc)</td>
</tr>
<tr>
<td>Flammable Limits in Air, % by Vol:</td>
<td>LOWER: 1.2% UPPER: 6.9% (TBAc)</td>
</tr>
</tbody>
</table>

SECTION X STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Conditions Contributing to Instability:</th>
<th>This product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatibility:</td>
<td>This product is incompatible with strong oxidizing agents, strong acids or bases, and selected amines.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products:</td>
<td>Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, and unidentified organics.</td>
</tr>
<tr>
<td>Conditions Contributing to Hazardous Polymerization:</td>
<td>N/A will not occur</td>
</tr>
</tbody>
</table>

SECTION XI TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Acute Toxicity</th>
<th>LC50/96 (VAPOR)</th>
<th>LD50 (ORAL)</th>
<th>LD50 (RABBIT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>4211 ppm</td>
<td>4500 MG/KG BWT</td>
<td>&gt;2000MG/KG BWT</td>
</tr>
</tbody>
</table>

**Acute Effects**

**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 DYSFUNCTION, AND VOMITING. THIS MATERIAL IS AN ASPIRATION HAZARDOUS.

**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.

**Repeate Does Toxicity**
INHALATION REPEATED EXPOSURE STUDIES DEMONSTRATED TARGET ORGAN EFFECTS IN MALE RATS (KINDEY) BY MECHANISM OF ACTION THAT IS NOT RELEVANT TO HUMANS. NADE 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

SECTION XII ECOLOGICAL INFORMATION

**Acute Fish Toxicity**
LC50/96 HOURS: ONCOHYNCHUS MYKISS 240 mg/l ACUTE TOXICITY TO FISH IS LOW

**Acute Toxicity to Aquatic Invertebrates**
EC50/48 HOURS: DAPHNIA MAGNE 350 mg/l LOW ACUTE TOXICITY TO AQUATIC INVERTEBRATES

**Toxicity to Aquatic Plants**
EC50/96 HOURS: PSEUDO KIRCHNE RIELLA SUBCAPITA TATA 60 mg/l LOW TOXICITY TO ALGAE

**Ecotoxicity**
EC3/16 HOURS: PSEUDO MONAS PUTIDA 78 mg/l LOW TOXICITY TO BACTERIA
EC3/72 HOURS: ENTOSPIRUM HON SULCATUM 970 mg/l

**Chronic Toxicity to Fish**
NO DATA AVAILABLE

**Chronic Toxicity to Aquatic Invertebrates**
NO DATA AVAILABLE

**Other Adverse Effects**
EXPECTED TO SHOW LOW TOXICITY TO HIGHER PLANTS

**Expected to be Emitted and Partitioned Predominantly to the Atmosphere**
ACCIDENTAL RELEASES TO WATER OR SOIL ARE EXPECTED TO EVAPORATE AND UNDERGO ATMOSPHERIC DECOMPOSITION PROCESSES.

**Environmental Tal Fate and Pathways**
MOBILITY: BEHAVIOR IN ENVIRONMENT. COMPARTMENTS: RELEASED MATERIAL WOULD BE EXPECTED TO SHOW HIGH SOIL MOBILITY AND TO VOLATILIZE READILY FORM SOIL NAD SURFACE WATERS, FORMING
POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED INTO PUBLIC WATER OR WATERWays UNLES AUTHORIZED BY A NATIONAL BY THE ENVIRONMENTAL PROTECTIONS AGENCY (EPA).

40 CFR 261). TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LAND FILL SITES ARE AVAILABLE.

COMPLIANCE WITH EPA FEDERAL, STATE, AND LOCAL REGULATIONS TREATMENT, TRANSPORTATION AND DISPOSAL MUST BE IN CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN MARINE POLLUTANT:

IMDG

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) AND 540-85-5 (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: YES, THIS PRODUCT DOES CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B), AROMATIC 100.

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: 5000 POUNDS (BUTYL ACETATE), THIS PRODUCT CONTAINS A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A): BUTYL ACETATE, XYLENES, MIXED

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

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SECTION XIII DISPOSAL CONSIDERATIONS

AQUATIC TOXICITY (E.G. 96H, TLM) : DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATER OR WATERWA UNLES AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTIONS 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</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>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>GROUND</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td>II</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</td>
<td>II</td>
<td>Passenger Aircraft - 5L Cargo Aircraft - 65L</td>
</tr>
<tr>
<td>IMDG</td>
<td>OCEAN</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td>II</td>
<td></td>
</tr>
</tbody>
</table>

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

SECTION XVI OTHER INFORMATION

HMIS HAZARD RATINGS:

POWERCOAT EPOXY HD AIM CLEAR PART B

<table>
<thead>
<tr>
<th>NFPA-704</th>
<th>NFPA-704</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>2</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>3</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
</tr>
</tbody>
</table>

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

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), AROMATIC 100.

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)

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