SINGLE WORD: AQUATIC LIFE. DROWSINESS OR DIZZINESS. HARMFUL TO CAUSE RESPIRATORY IRRITATION. MAY CAUSE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY HAZARD STATEMENT: PROTECTIVE EQUIPMENT IS ADVISED WHEN HANDLING THIS PRODUCT:

AROMATIC (Petroleum) LIGHT SOLVENT NAPHTHA

ACETATE

TERTIARY BUTYL POLYMER

STYRENE ACRYLATE

ACETATE

TERTIARY BUTYL

POLYMER

STYRENE ACRYLATE

ACETATE

HEAVY AROMATIC SOLVENT NAPHTHA

SOLVENT NAPHTHA (Petroleum) LIGHT AROMATIC

WHEN USING PRODUCT IN CONFINED AREA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL VOMITING: USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER WITH ADEQUATE VENTILATION: IF SWALLOWED, DO NOT INDUCE PRECAUTIONARY STATEMENT

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.

PREGUCAUTIONARY 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>%</th>
<th>HAZARD DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE ACRYLATE POLYMER</td>
<td>25036-16-2</td>
<td>35-45%</td>
<td>ND</td>
</tr>
<tr>
<td>TERTIARY BUTYL ACETATE</td>
<td>540-88-6</td>
<td>35-45%</td>
<td>OSHA HAZARD: FLAMMABLE LIQUID OSHA PEL: 200 ppm ACGIH TLV: 200 ppm</td>
</tr>
<tr>
<td>HEAVY AROMATIC SOLVENT NAPHTHA</td>
<td>64742-94-5</td>
<td>1-5%</td>
<td>ACGIH TLV: 100 ppm, 525 mg/m3 (TWA) OSHA PEL: 100 ppm, 590 mg/m3 (TWA) NIOSH REL: 350 mg/m3 (TWA)</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (Petroleum) LIGHT AROMATIC</td>
<td>64742-94-6</td>
<td>&lt;5%</td>
<td>OSHA HAZARD:combustible TLV 50 ppm</td>
</tr>
</tbody>
</table>

SECTION IV FIRST AID MEASURES

HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE

ROUTINES OF EXPOSURE:

INHALATION: THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES, DIZZINESS, LIGHTHEADEDNESS 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 50 ppm ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRITATING 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 IRRITATION DEVELOPS AND PERSISTS.

INHALATION: MOVE TO LOCATION FREE FROM VAPORS. 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:

FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY. 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. THE USE OF SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED FOR FIRE FIGHTERS. SEE ALSO SECTION IX.
GENERAL HAZARD: FLAMMABLE 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 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, PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.

ELECTRO-STATIC ACCUMULATION HAZARD: USE PROPER GROUNDING.

UNUSUAL FIRE AND EXPLOSION HAZARD: THIS PRODUCT IS EXTREMELY FLAMMABLE AND EXPLOSIVE UNDER NORMAL CONDITIONS IN THE PRESENCE OF FLAME OR SPARK SOURCE. 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. 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:

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, 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 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 MIGHT BURN IN A FLAME EVEN AFTER EMPTYING. CONTAINERS SHOWN ARE STORED AND PROPERLY DISPOSED OF.

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: STORE AT A TEMPERATURE EQUAL TO OR ABOVE THE FLASH POINT. STORE 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.

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.

GOVES: THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. IMPERVIOUS GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR CLOTH.

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

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

<table>
<thead>
<tr>
<th>TOXICITY</th>
<th>LC50 (VAPOR)</th>
<th>RAT</th>
<th>4211 ppm</th>
<th>6 HOURS</th>
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<tbody>
<tr>
<td>ACUTE TOXICITY</td>
<td>LD50 ORAL</td>
<td>RAT</td>
<td>4500 MG/KG BWT</td>
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<tr>
<td>ACUTE TOXICITY</td>
<td>LD50 RABBIT</td>
<td>&gt;2000 G/KG BWT</td>
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ACUTE EFFECTS:

INHALATION: VAPORS OR AEROSOL MAY CAUSE IRRITATION OF THE...
ACUTE TOXICITY TO FISH:

\[
\text{EC}_{50}/96 \text{ HOURS: } 78 \text{ mg/l}
\]

ACUTE TOXICITY TO AQUATIC INVERTEBRATES:

\[
\text{EC}_{50}/48 \text{ HOURS: } 350 \text{ mg/l}
\]

LOW ACUTE TOXICITY TO AQUATIC INVERTEBRATES:

\[
\text{EC}_{50}/96 \text{ HOURS: } 60 \text{ mg/l}
\]

LOW TOXICITY TO ALGAE:

\[
\text{EC}_{3}/16 \text{ PSEUDOKIRCHNERIELLA SP.}
\]

MICROORGANISMS:

\[
\text{ECOCHORUS MYKISS: } 240 \text{ mg/l}
\]

\[
\text{ENTOSPIRUS SULCATUM: } 970 \text{ mg/l}
\]

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:

BIOACCUMULATION: BIOCONCENTRATION FACTOR (BCF) 5.61 (OSHA CALCULATED VALUE) THIS MATERIAL IS NOT EXPECTED TO BIOACCUMULATE

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>
<th>Quantity Limitation</th>
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</thead>
<tbody>
<tr>
<td>DOT</td>
<td>GROUND</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td>II</td>
<td>ORM-D - Max 30Kg gross wt (6lb)</td>
</tr>
<tr>
<td>IATA</td>
<td>AIR</td>
<td>1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td>II</td>
<td>Passengers Aircraft - 5L 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

**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). 540-88-5 (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:** This product does contain a material on the Marine Pollutants Table (HMT 172.101 Appendix B). See Section XIV.

**CERCLA / RQ:** 5000 pounds (acetone, butyl acetate) This product contains a material on the RQ Table (HMT 172.101 Appendix A): butyl acetate.

**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>
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</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>CERTI-VEK AC 1315 SUPER GLOSS</th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
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<tbody>
<tr>
<td>HEALTH</td>
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<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
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<td>3</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