

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



| | |
|---------------------|----------|
| HEALTH | 1 |
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |

SAFETY DATA SHEET
 VEXCON NO. AB102
STARSEAL ENVIO STRONG

SECTION I - GENERAL INFORMATION

| | |
|--|---------------------------------------|
| PRODUCT IDENTIFICATION: STARSEAL ENVIO STRONG | |
| VOC CONTENT: | 0 GR/LITER OR 0#/GAL |
| CATEGORY: | NOT REGULATED |
| COMMON NAME: | AQUEOUR ACRYLATE EMULSION |
| 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: | SEPTEMBER 2019 |
| PREPARED BY: | DARRY F. MANUEL , PRESIDENT |

SECTION II - HAZARD IDENTIFICATION

| |
|---|
| CLASSIFICATION OF MIXTURE ASPIRATION - CATEGORY 1 |
| SINGLE WORD: WARNING |
| HAZARD STATEMENT: UNDER NORMAL CONDITIONS OF USE, THIS PRODUCT IS NOT CONSIDERED HAZARDOUS ACCORDING TO REGULATORY GUIDELINES. |
| PRECAUTIONARY STATEMENT: UNDER NORMAL CONDITIONS OF INTENDED USE, THIS PRODUCT DOES NOT POSE A RISK TO HEALTH. EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN OR RESPIRATOR IRRITATION. KEEP FROM FREEZING |
|   |

SECTION III HAZARDOUS INGREDIENTS

| MATERIAL OR COMPONENTS | CAS NO. | % | HAZARD DATA | UN# |
|------------------------------------|------------|--------|--------------------|------|
| MODIFIED ACRYLATE POLYMER EMULSION | 25085-34-1 | 30-50% | ORAL LD50 5.0 g/Kg | NONE |
| WATER | N/A | BAL | N/A | NONE |

SECTION IV FIRST AID MEASURES

HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE

| | |
|--|---|
| ROUTES OF EXPOSURE: | |
| INHALATION: | 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 CAN CAUSE SEVERE EYE IRRITATION. |
| INGESTION / INHALATION | CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING. |
| EFFECTS OF OVEREXPOSURE: | 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 DEFAIT THE SKIN POSSIBLY CAUSING DERMATITIS. |
| EMERGENCY AND FIRST AID PROCEDURES: | |
| EYES: | FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN. |
| SKIN: | WASH WITH SOAP AND PLENTY 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: | SEEK MEDICAL ATTENTION. |

SECTION V FIREFIGHTING MEASURES

| | |
|--|---|
| EXTINGUISHING MEDIA: | EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY. |
| GENERAL HAZARD: | "EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR). EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF. |
| ELECTRO-STATIC ACCUMULATION HAZARD: | <u>NOT AN ELECTRO-STATIC HAZARD</u> |

| | |
|---|--|
| UNUSUAL FIRE AND EXPLOSION HAZARD: | WATER MIX: NO UNUSUAL HAZARDS. |
| SPECIAL FIRE FIGHTING PROCEDURES | PRODUCT WILL BURN IF TEMPERATURE EXCEEDS BOILING POINT. POLYMER FILM CAN BURN. |

SECTION VI ACCIDENTAL RELEASE MEASURES

| |
|---|
| STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: |
| 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 TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR WITH ANOTHER SUITABLE ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS. |

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): 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

| | |
|---|--|
| BOILING POINT: (760mmHg) 101°C / 215°F | MELTING/FREEZING POINT: 0°C / 32°F (WATER) |
| VAPOR PRESSURE: 17.5 mmHg@68°F/20°C (WATER) | VAPOR DENSITY (AIR=1): = WATER |
| SOLUBILITY IN H2O % BY WT: 100% SOLUBLE | % VOLATILES BY VOL: 70-85% WATER |
| EVAPORATION RATE (BuAc=1): 0.3 SLOW (WATER) | SPECIFIC GRAVITY (H2O=1) 1.029 |
| pH (AS IS): 8-9 TYPICAL | pH (1% SOLN): 7-8 TYPICAL |
| APPEARANCE AND ODOR: | MILKY WHITE EMULSION |
| FLASH POINT: (TEST METHOD) | NONE (WATER) |
| AUTOIGNITION TEMP: | NONE (WATER) |
| FLAMMABLE LIMITS IN AIR, % BY VOL: | NONE (WATER) |

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

| | |
|---|---|
| GENERAL INFORMATION | DATA DERIVED FOR THE PRODUCT AS A WHOLE ARE OF HIGHER PRIORITY THAN DATA FOR SINGLE INGREDIENTS. TOXICOLOGICAL TESTING HAS BEEN CONDUCTED WITH SIMILAR PRODUCTS |
| ACUTE TOXICITY | BASED ON THE AVAILABLE DATA ACUTE TOXIC EFFECTS ARE NOT EXPECTED AFTR SINGLE ORAL EXPOSURE. |
| | ROUTE OF EXPOSURE: ORAL |
| | RESULT/EFFEXT: LD50: >2000 mg/kg SPECIES: RAT SOURCE: CONCLUSION BY ANALOGY OECD 423 |
| SKIN CORROSION | BASED ON AVAILABLE DATA A CLINICALLY RELEVANT SKIN IRRITATION HAZARD IS NOT EXPECTED |
| | RESULT/EFFEXT: NOT IRRITATION |
| | SPECIES: RABBIT SOURCE: CONCLUSION BY ANALOGY OECD 404 |
| SERIOUS EYE DAMAGE/ EYE IRRITATION | BASED ON AVAILABLE DATA A CLINICALLY RELEVANT EYE IRRITATION HAZARD IS NOT EXPECTED |
| | RESULT/ EFFECT: NOT IRRITATION |
| | SPECIES: RABBIT CONCLUSION BY ANALOGY OECD 405 |
| RESPIRATORY OR SKIN SENSITIZATION | FOR THIS ENDPOINT NO TOXICOLOGICAL TEST DATA IS AVAILABLE FOR THE WHOLE PRODUCT |
| | BASED ON THE PROVEN LOW SENSITIZATION INDUCTION THRESHOLD |

| | |
|---|--|
| | IN HUMANS, MIXTURES CONTAINING ≥15 ppm ARE CLASSIFIED AS SKIN SENSITIZING IN EUROPE. |
| GERM CELL MUTAGENICITY | BASED ON KNOWN DATA A SIGNIFICANT MUTAGENIC POTENTIAL MAY BE EXCLUDED. RESULT/EFFECTS: NEGATIVE SPECIES: MUTATION ASSAY (IN VITRO) BACTERIAL CELLS CONCLUSION BY ANALOGY OECD 471 |
| CARCINOGENICITY | FOR THIS ENDPOINT NO TOXICOLOGICAL TEST DATA IS AVAILABLE FOR THE WHOLE PRODUCT |
| REPRODUCTIVE TOXICITY | FOR THIS ENDPOINT NO TOXICOLOGICAL TEST DATA IS AVAILABLE FOR THE WHOLE PRODUCT |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) | FOR THIS ENDPOINT NO TOXICOLOGICAL TEST DATA IS AVAILABLE FOR THE WHOLE PRODUCT. |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) | FOR THIS ENDPOINT NO TOXICOLOGICAL TEST DATA IS AVAILABLE FOR THE WHOLE PRODUCT. |
| ASPIRATION HAZARD | BASED ON THE PHYSICAL-CHEMICAL PROPERTIES OF THE PRODUCT NO ASPIRATION HAZARD MUST BE EXPECTED. |

SECTION XII ECOLOGICAL INFORMATION

| | |
|--------------------------------------|---|
| TOXICITY | NO EXPECTED DAMAGING EFFECTS TO AQUATIC ORGANISMS. ACCORDING TO CURRENT KNOWLEDGE ADVERSE EFFECTS ON WATER PURIFICATION PLANTS ARE NOT EXPECTED. LC50: >100 mg/l SPECIES: RAINBOW TROUT (ONCORHYNCHUS MYKISS) (96HR) CONCLUSION BY ANALOGY OECD 203 EC10: 1000 mg/l SLUDGE (0.5H) CONCLUSION BY ANALOGY |
| PERSISTENCE AND DEGRADABILITY | POLYMER COMPONENT: NOT READILY BIODEGRADABLE. ELIMINATION BY ADSORPTION TO ACTIVATED SLUDGE. SEPARATION BY FLOCCULATION IS POSSIBLE. |
| BIOACCUMULATIVE POTENTIAL | NO ADVERSE EFFECTS EXPECTED. |
| MOBILITY IN SOIL | NO ADVERSE EFFECTS EXPECTED. |
| OTHER ADVERSE EFFECTS | NONE KNOWN |
| ADDITIONAL INFORMATION | THE ECOTOXICOLOGICAL RESULTS PROVIDED WERE OBTAINED FROM TEST WITH SIMILAR PRODUCTS. |

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

| Governing Body | Mode | UN Number | Proper Shipping Name | Hazard Class | Packing Group |
|--------------------------|--|---------------|----------------------|---------------|---------------|
| DOT | GROUND | NON REGULATED | NON REGULATED | NON REGULATED | NA |
| IATA | AIR | NON REGULATED | NON REGULATED | NON REGULATED | NA |
| IMDG | OCEAN | NON REGULATED | NON REGULATED | NON REGULATED | NA |
| MARINE POLLUTANT: | THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B) | | | | |

SECTION XV REGULATORY INFORMATION

| |
|---|
| 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. |
| SARA TITLE III: UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND RE-AUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: DELAYED HEALTH, FIRE |
| ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER) FEDERAL / FDA / USDA: |
| MARINE POLLUTANTS: NO. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B). |
| CALIFORNIA PROP 65: 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 |

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:

| 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 | KEY 4 -- SEVERE 3 -- SERIOUS 2 -- MODERATE 1 -- SLIGHT 0 -- MINIMAL | | | | | | | | | | | | | | | | | | | | |
|---|---|----------|---------------|----------|----------|--------|---|---|---------------|--------|---|---|-------------|--------------|---|---|-------------|------------|---|---|--------------|
| STARS ENVIRONMENTAL HEALTH FLAMMABILITY REACTIVITY | <table border="1"> <thead> <tr> <th>STARS</th> <th>NPCA-HMIS</th> <th>NFPA 704</th> <th>SEVERITY</th> </tr> </thead> <tbody> <tr> <td>STRONG</td> <td>1</td> <td>1</td> <td>2 -- MODERATE</td> </tr> <tr> <td>HEALTH</td> <td>1</td> <td>1</td> <td>1 -- SLIGHT</td> </tr> <tr> <td>FLAMMABILITY</td> <td>1</td> <td>1</td> <td>1 -- SLIGHT</td> </tr> <tr> <td>REACTIVITY</td> <td>0</td> <td>0</td> <td>0 -- MINIMAL</td> </tr> </tbody> </table> | STARS | NPCA-HMIS | NFPA 704 | SEVERITY | STRONG | 1 | 1 | 2 -- MODERATE | HEALTH | 1 | 1 | 1 -- SLIGHT | FLAMMABILITY | 1 | 1 | 1 -- SLIGHT | REACTIVITY | 0 | 0 | 0 -- MINIMAL |
| STARS | NPCA-HMIS | NFPA 704 | SEVERITY | | | | | | | | | | | | | | | | | | |
| STRONG | 1 | 1 | 2 -- MODERATE | | | | | | | | | | | | | | | | | | |
| HEALTH | 1 | 1 | 1 -- SLIGHT | | | | | | | | | | | | | | | | | | |
| FLAMMABILITY | 1 | 1 | 1 -- SLIGHT | | | | | | | | | | | | | | | | | | |
| REACTIVITY | 0 | 0 | 0 -- MINIMAL | | | | | | | | | | | | | | | | | | |