



HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

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

MATERIAL SAFETY DATA SHEET

VEXCON NO. AB102

GENERAL INFORMATION

PRODUCT IDENTIFICATION: STARSEAL ENVIO® STRONG

VOC: 0

VOC CONTENT: 0 GR./LITER **CATEGORY:** NOT REQUIRED

COMMON NAME: AQUEOUS ACRYLATE EMULSION

DOT SHIPPING NAME: IN CONTAINERS LESS THAN 119 GALS. AND GREATER THAN 119 GALS.: STARSEAL ENVIO STRONG (NON-REGULATED)

HEALTH AND SAFETY: ACRYLIC LIQUID: USE ONLY WITH ADEQUATE VENTILATION: DO NOT INDUCE VOMITING IF SWALLOWED: KEEP FROM FREEZING: USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE CLOTHING IS ADVISED WHEN HANDLING THIS PRODUCT.

SECTION I

MANUFACTURER: VEXCON CHEMICALS
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PREPARED: JUNE 2002
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PREPARED BY: DARRYL F. MANUEL/PRESIDENT

SECTION II HAZARDOUS INGREDIENTS

<u>MATERIAL OR COMPONENTS</u>	<u>CAS. NO.</u>	<u>%</u>	<u>HAZAR DATA</u>
MODIFIED ACRYLATE POLYMER EMULSION	25085-34-1		ORAL LD50 5.0 gr/Kg NA
WATER			

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 760 mm Hg: 215° F **MELTING POINT:** 32° F WATER
VAPOR PRESSURE: 17mm Hg 68° F **SPECIFIC GRAVITY (H2O=1)** 1-1.2
VAPOR DENSITY (AIR=1): LESS 1 WATER
SOLUBILITY IN H2O BY WT: 100% **% VOLATILES BY VOL:** 84-86 WATER
EVAPORATION RATE: (BUOH=1): LESS THAN WATER
PH (AS IS): 8-9 PH (1% SOLN): 7-8
APPEARANCE AND ODOR: MILKY WHITE EMULSION

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: (TEST METHOD) NA

AUTOIGNITION TEMP: N.D.

FLAMMABLE LIMITS IN AIR, % BY VOL:

LOWER: N.D. **UPPER:** N.D. **BOILING POINT:** 215° F

EXTINGUISHING MEDIA: FOAM, WATER FOR OR SPRAY

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARD: PRODUCT WILL IN THIS DATA SHEET MUST BE OBSERVED.

SECTION V REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: THIS PRODUCT IS STABLE

INCOMPATIBILITY: THIS PRODUCT IS INCOMPATIBLE WITH STRONG ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR YIELDS CARBON MONOXIDE AND/OR CARBON DIOXIDE.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: N/A

SECTION VI HEALTH HAZARD INFORMATION

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: PROLONGED OR REPEATED CONTACT CAN RESULT IN MODERATE IRRITATION

SKIN ABSORPTION: PROLONGED OR REPEATED CONTACT CAN RESULT IN MODERATE IRRITATION

EYE CONTACT: THIS PRODUCT CAN CAUSE SEVERE IRRITATION.

INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING.

EFFECTS OF OVEREXPOSURE: ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MORDERATELY IRRITATING ON SKIN AND EYES

ACUTE OVEREXPOSURE: 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. CONSULT WITH A PHYSICIAN.

SKIN: IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN.
INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

WASTE DISPOSAL METHOD: TREATMENT TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA OR STATE REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT. TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LAND FILL SITES ARE AVAILABLE.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN UP IS COMPLETE. STOP SPILL AT SOURCE. DIKE SPILL AREA TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.

SECTION VIII CONTROL MEASURES

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): CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR CARTRIDGE: FULL FACE ORGANIC VAPOR CARTRIDGE IF EYE PROTECTION IS NEEDED.

EYE: CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

OTHER CLOTHING AND EQUIPMENT: TO PREVENT BODY CONTACT, IMPERVIOUS CLOTHING AND BOOTS ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

SECTION IX SPECIAL PRECAUTIONS

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/DRIED BEFORE RE-USE. 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 IN WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH FEDERAL REGULATIONS. DO NOT STORE OR CONSUME FOOD, DRINK, OR TOBACCO IN AREA WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. KEEP AWAY FROM HIGH TEMPERATURES, OPEN FLAMES, SPARKS, ETC. USE WITH EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

HMIS HAZARD RATINGS:

	NPCA-HMIS	NFPA 704	KEY
HEALTH	1	1	4=SEVERE
FLAMMABILITY	1	1	3=SERIOUS
REACTIVITY	0	0	2=MODERATE
			1=SLIGHT
			0=MINIMAL

ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER).

FEDERAL:

FDA:

USDA:

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

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