

**HAZARD RATING**

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

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>

**MATERIAL SAFETY DATA SHEET  
 VEXCON NO. FR114**

**GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:** STARSEAL® EF 1500 RELEASE  
**VOC CONTENT:** <25 grams/liter **CATEGORY:** FROM RELEASE  
**COMMON NAME:** FORM RELEASE-WATER SOLUTION  
**DOT SHIPPING NAME:**

IN CONTAINERS LESS THAN AND GREATER THAN 119 GALS:  
 STARSEAL EF 1500 RELEASE (NON-REGULATED)

**HEALTH AND SAFETY:** USE ONLY WITH ADEQUATE VENTILATION: IF SWALLOWED, DO NOT INDUCE VOMITING: MAY BE SKIN/EYE IRRITANT: USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE CLOTHING IS ADVISED WHEN HANDLING THIS PRODUCT.

**SECTION I**

**MANUFACTURER:** VEXCON CHEMICALS  
**EMERGENCY NO:** 1-800-858-2828  
**CHEMTREC NO:** 1-800-424-9300  
**TELEPHONE NO:** 1-215-332-7709  
**ADDRESS:** 7240 STATE RD., PHILA., PA 19135  
**PREPARED:** FEBRUARY 1997  
**UPDATED:** NOVEMBER 2010  
**PREPARED BY:** DARRYL F. MANUEL/PRESIDENT

**SECTION II HAZARDOUS INGREDIENTS**

<u>MATERIAL OR COMPONENTS</u>	<u>%</u>	<u>HAZARD DATA</u>
WATER SOLUTION OF RELEASE AGENTS	94-98%	WATER NO TLV'S OR HAZARDOUS INDGREDIENTS
RELEASE AGENTS	<5%	

**SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS**

**BOILING POINT,** 212° F **MELTING POINT:** N/A  
**SPECIFIC GRAVITY (H2O=1):** 1.0 **VAPOR**  
**PRESSURE:**  
**VAPOR DENSITY (AIR=1):** 8.0 APPROX.  
**SOLUBILITY IN H2O % BY WT:** SOLUBLE **% VOLATILES BY VOL:** 97%  
**EVAPORATION RATE (ETHER=1):** PH (AS IS): 7.5-8.0 PH (1% SOLN): NA  
**APPEARANCE AND ODOR:** CLEAR COLOR LIQUID WITH NO ODOR

**SECTION IV FIRE AND EXPLOSION DATA**

**FLASH POINT: (TEST METHOD):** NONE  
**AUTOIGNITION TEMPERATURE:** NONE  
**FLAMMABLE LIMITS IN AIR: % BY VOL:**  
**LOWER:** ND **UPPER:** ND  
**EXTINGUISHING MEDIA:** FOAM, DRY CHEMICAL, CO2, WATER FOG OR.  
**SPECIAL FIRE FIGHTING PROCEDURES:** THE USE OF SELF CONTAINED BREATHING APPARATUS IS RECOMMENDED FOR FIRE FIGHTERS. WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIA, BUT HELPFUL IN KEEPING ADJACENT CONTAINERS COOL. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES  
**UNUSUAL FIRE AND EXPLOSION HAZARD:** VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR.

**SECTION V REACTIVITY DATA**

**CONDITIONS CONTRIBUTING TO INSTABILITY:** 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.  
**CONDITIONS CONTRIBUTING TO HAZARD POLYMERIZATION:** N/A WILL NOT OCCUR.

**SECTION VI HEALTH HAZARD INFORMATION**

**ROUTES OF EXPOSURE:**  
**INHALATION:** INHALATION OF HIGH VAPOR CONCENTRATIONS MAY HAVE RESULTS RANGING FROM DIZZINESS AND HEADACHES TO UNCONSCIOUSNESS.  
**SKIN CONTACT:** THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.  
**SKIN ABSORPTION:** SEE ABOVE  
**EYE CONTACT:** THIS PRODUCT MAY BE AN EYE IRRITANT.  
**INGESTION** IF SWALLOWED, DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY.

**EFFECTS OF OVEREXPOSURE:** ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES. PROLONGED CONTACT ON 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 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.

**SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE**

**WASTE DISPOSAL METHOD:** TREATMENT, STORAGE, 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 IF RELEASED OR SPILLED:** ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES, INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP IS COMPLETE. STOP SPILL AT SOURCE. DIKE SPILLAREA TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVEL 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 IF EYE PROTECTION IS NEEDED.

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

**GLOVES:** 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 ARE A RECOMMENDATION WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS ARE 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 AND 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	0	0	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 IT'S INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? YES

**PREPARED BY:**

DARRYL MANUEL

**TITLE:**

PRESIDENT

**COMPANY:**

VEXCON CHEMICALS

**ADDRESS:**

7240 STATE RD. PHILA., PA 19135

**THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE. VEXCON PROVIDES NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETMENT OF THE INFORMATION CONTAINED HEREIN**