



HAZARD RATING

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

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

MATERIAL SAFETY DATA SHEET
VEXCON NO. OP103

GENERAL INFORMTION

PRODUCT IDENTIFICATION: STARSEAL® ENVIO SET AND

STARSEAL ENVIO SET F

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

COMMON NAME: CONCRETE RETARDER

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

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

SECTION I

MANUFACTURER: VEXCON CHEMICALS
EMERGENCY NO: 1-800-858-2828
CHEMTREC: 1-800-424-9300
TELEPHONE NO: 1-215-332-7709
ADDRESS: 7240 STATE RD., PHILA., PA 19135
PREPARED: MARCH 1996
UPDATED: JANUARY 2008
PREPARED BY: DARRYL F. MANUEL/PRESIDENT

SECTION II HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS	CAS. NO.	%	HAZARD DATA	UN#
CALCIUM LIGNOSULFONATE	68514-09-0	24%	RESPIRABLE DUST 5 Mg/M3 TLV TOTAL DUST 15 Mg/M3	
WATER		76%	ND	

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 212° F **SPECIFIC GRAVITY (H2O=1):** 1.11
VAPOR DENSITY (AIR=1): HEAVIER THAN AIR
SOLUBILITY IN H2O: MISCIBLE
EVAPORATION RATE: SLOWER THAN ETHER
APPEARANCE AND ODOR: RED/BROWN LIQUID

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE

FLAMMABLE LIMITS IN AIR % BY VOL.:

LOWER: NA **UPPER:** NA

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARD: NOT FLAMMABLE. DRY
FILMS WILL YIELD CARBON MONOXIDE, CARBON DIOXIDE AND
SULFUR DIOXIDE IF BURNING.

SECTION V REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: PRODUCT IS STABLE

INCOMPATIBILITY: NONE

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: NONE

CONDITIONS CONTRIBUTING TO HAZARD POLYMERIZATION:
WILL NOT OCCUR.

SECTION VI HEALTH HAZAED INFORMATION

ROUTES OF EXPOSURE:

INHALATION: NO ADVERSE AFFECTS

SKIN CONTACT: MAY CAUSE IRRITATION TO SKIN

SKIN ABSORPTION: SEE ABOVE

EYE CONTACT: THIS PRODUCT MAY BE AN EYE IRRITANT.

INGESTION/INHALATION: THIS MATERIAL HAS A LOW INGESTION
TOXICITY. NAUSEA AND OTHER SIMILAR SYMPTOMS MAY HOWEVER
OCCUR.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR A
MINIMUM OF 15 MINUTES. IF IRRITATION PERSISTS CONSULT A
PHYSICIAN.

SKIN: IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF
WATER. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN.

INHALATION: NONE

INGESTION: SEEK PROMPT MEDICAL ATTENTION.

**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.

STEPS TO BE TAKEN IF MATERIAL IF RELEASED OR SPILLED:
USE ABSORBENT MATERIAL AND PUT IN A SEALED CONTAINER

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
NORMAL STORAGE PROCEDURES

OTHER PRECAUTIONS: KEEP DRUMS CLOSED TIGHTLY AND IN AN UPRIGHT POSITION. KEEP MATERIAL FROM FREEZING.

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.

RESPIRATORY(SPECIFY IN DETAIL): NONE

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.

SECTION IX SPECIAL PRECAUTIONS

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

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