

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

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>REACTIVITY</b>	<b>0</b>

**MATERIAL SAFETY DATA SHEET**  
**VEXCON NO. CS 130/132**  
**CERTI-VEX AC 1315 SUPER SEAL**

**GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:**  
 CERTI-VEX® AC1315 SUPERSEAL AND HG VOC  
**VOC CONTENT:** <350 GRAMS/LITER OR <2.91#/GAL  
**CATEGORY:** CONCRETE CURE  
**COMMON NAME:** STYRENE ACRYLATE COPOLYMER IN AROMATIC/ EXEMPT SOLVENT  
**DOT SHIPPING NAME:**  
 IN CONTAINERS LESS THAN 119 GALS:  
 RESIN SOLUTION, FLAMMABLE, 3 UN 1866, II  
 IN CONTAINERS GREATER THAN 119 GALS:  
 RQ, RESIN SOLUTION, FLAMMABLE, 3, UN 1866, II  
**FOR LIMITED QUANTITY AIR & OCEAN SHIPMENT:**  
 RQ (TERT BUTYL ACETATE) RESIN SOLUTION, FLAMMABLE, 3, UN1866, III  
**HEALTH AND SAFETY:** FLAMMABLE LIQUID: 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 I**

**MANUFACTURER:** VEXCON CHEMICALS, INC.  
**ADDRESS:** 7240 STATE RD., PHILA., PA 19135 USA  
**EMERGENCY NO:** 1-800-858-2828  
**TELEPHONE NO:** 1-215-332-7709  
**CHEMTREC NO:** 1-800-424-9300  
**PREPARED:** SEPTEMBER 2008  
**UPDATED:** APRIL 2010  
**PREPARED BY:** DARRYL F. MANUEL, PRESIDENT

**SECTION II HAZARDOUS INGREDIENTS**

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
STYRENE ACRYLATE POLYMER	25036-16-2	20-35 %	ND	
TERT BUTYL ACETATE	540-88-5	20-70 %	OSHA HAZARD: FLAMMABLE LIQUID OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	
ACETONE	67-64-1	20-35 %	OSHA PEL: 1000 ppm ACGIH TLV: 500 ppm NIOSH REL: 250 ppm	1090
SOLVENT NAPHTHA (Petroleum), AROMATIC	64742-95-6	5-20 %	TLV 50 PPM OSHA HAZARD: COMBUSTIBLE	1268
<b>WHICH CONTAINS</b>				
PETROLEUM HYDROCARBONS	8052-41-3	40-66%	OSHA PEL: 2900 mg/m3 ACGIH TLV: 525 mg/m3 OR 100 ppm	1225
TRIMETHYL BENZENE	95-63-6	10%	OSHA PEL: NE ACGIH TLV: 25 ppm	2325
<b>THE SOLVENT PORTION CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:</b>				
COMPONENT	CAS NO.	MAX %		
TRIMETHYL BENZENE	95-63-6	1.5%	OSHA PEL: NE ACGIH TLV: 25ppm	2325

**SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>BOILING POINT:</b> (760mmHg) 133°F / 56.5°C	<b>MELTING POINT:</b> N/A
<b>VAPOR PRESSURE:</b> (acetone) 400 mmHg@104°F/39.5°C	<b>VAPOR DENSITY (AIR=1):</b> 2.0
<b>SOLUBILITY IN H2O % BY WT:</b> 0.5%	<b>% VOLATILES BY VOL:</b> 70-80%
<b>EVAPORATION RATE (BuAc=1):</b> 2.8	<b>SPECIFIC GRAVITY (H2O=1)</b> 0.972
<b>pH (AS IS)</b> N/A	<b>pH (1% SOLN)</b> N/A
<b>APPEARANCE AND ODOR:</b>	CLEAR LIQUID WITH SWEET SOLVENT ODOR

**SECTION IV FIRE AND EXPLOSION DATA**

<b>FLASH POINT:</b> (TEST METHOD)	-20°C / -4°F (TCC) acetone
<b>AUTOIGNITION TEMP:</b>	465°C / 869°F
<b>FLAMMABLE LIMITS IN AIR, % BY VOL:</b>	<b>LOWER:</b> 2.5% <b>UPPER:</b> 12.8%
<b>EXTINGUISHING MEDIA:</b>	FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY.
<b>GENERAL HAZARD:</b>	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 AND/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, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.
<b>ELECTRO-STATIC ACCUMULATION HAZARD:</b>	<b>USE PROPER GROUNDING</b>
<b>UNUSUAL FIRE AND EXPLOSION HAZARD:</b>	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.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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.

**SECTION V REACTIVITY DATA**

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

## SECTION VI HEALTH HAZARD INFORMATION

### HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE

ROUTES OF EXPOSURE:	
<b>INHALATION:</b>	THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION. ACETONE COMPONENT, TERTIARY BUUTYL ACETATE COMPONENT, AROMATIC NAPHTHA COMPONENT.
<b>SKIN CONTACT:</b>	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. ACETONE COMPONENT, TERTIARY BUUTYL ACETATE COMPONENT, AROMATIC NAPHTHA COMPONENT.
<b>SKIN ABSORPTION:</b>	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. ACETONE COMPONENT, TERTIARY BUUTYL ACETATE COMPONENT, AROMATIC NAPHTHA COMPONENT.
<b>EYE CONTACT:</b>	THIS PRODUCT MAY BE AN EYE IRRITANT.
<b>INGESTION / INHALATION</b>	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.
<b>EFFECTS OF OVEREXPOSURE:</b>	TLV 50 ppm ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.
<b>ACUTE OVEREXPOSURE:</b>	ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS: MODERATE IRRITATION BY LIQUID TO SKIN AND EYES. PROLONGED CONTACT ON THE SKIN WILL CLAY AND DEBAT THE SKIN POSSIBLY CAUSING DERMATITIS.
EMERGENCY AND FIRST AID PROCEDURES:	
<b>EYES:</b>	FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>SKIN:</b>	WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
<b>INHALATION:</b>	MOVE TO LOCATION FREE FROM VAPORS. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.
<b>INGESTION:</b>	DO NOT INDUCE VOMITING; SEEK IMMEDIATE MEDICAL ATTENTION.

## SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE AND SPILL CONTROL

**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).

### 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.

**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 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):** 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.

**EYE:** 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 SPECIAL PRECAUTIONS

**PRECAUTIONARY STATEMENTS:** 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. 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 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:** KEEP PRODUCT CONTAINERS COOL, DRY AND AWAY FROM SOURCES OF IGNITION. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION EQUIVALENT TO FRESH AIR. 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 AREAS 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:

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

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

## SECTION X 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.

**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 800-424-8802. **THE REPORTABLE SPILL QUANTITY OF THIS PRODUCT IS 5,000 POUNDS.**

### THIS PRODUCT CONTAINS: TRIMETHYL BENZENE

**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:

### CERCLA / RQ: 5000 POUNDS

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

### PREPARED BY

DARRYL MANUEL / PRESIDENT

### COMPANY:

VEXCON CHEMICALS, INC.

### ADDRESS:

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