

**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. CT127**

**GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:** STARSEAL® FUSION  
**VOC CONTENT:** 0 GR/LITER OR 0 #/GAL.  
**CATEGORY:** NOT REQUIRED  
**COMMON NAME:** SILICATE SOLUTION  
**DOT SHIPPING NAME:** IN CONTAINER LESS THAN 119 GALS AND GREATER THAN 119 GAL STARSEAL PS FUSION (NON-REGULATED)  
**FOR LIMITED QUANTITY AIR & OCEAN SHIPMENT:** STARSEAL FUSION (NON-REGULATED)  
**HEALTH AND SAFETY:** CAUTION: BASIC LIQUID: MAY IRRIGATE MUCOUS MEMBRANES: LONG TERM OVEREXPOSURE MAY CAUSE DAMAGE TO SKIN AND/OR RESPIRATORY TRACT: 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 NO:** 1-800-424-9300  
**TELEPHONE NO:** 1-215-332-7709  
**ADDRESS:** 7240 STATE RD., PHILA., PA 19135  
**UPDATED:** DECEMBER 2009  
**PREPARED BY:** DARRYL F. MANUEL

**SECTION II HAZARDOUS INGREDIENTS**

<u>MATERIAL OR COMPONENTS</u>	<u>CAS. NO.</u>	<u>HAZARD DATA</u>
SILICIC ACID-POTASSIUM SALT	1312-76-1	NA
ADDITIVES		NA

**SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS**

**VAPOR DENSITY (AIR=1):** N/A  
**SOLUBILITY IN H2O % BY WT:** 100%  
**% VOLATILES BY VOL:** 28% H2O  
**EVAPORATION RATE (BUOH=1):** LESS THAN  
**APPEARANCE AND ODOR:** COLORLESS, BASICALLY ODOR  
**SPECIFIC GRAVITY:** PS=1.126 PS HB= 1.282  
 FREE LIQUID. (MAY CONTAIN FUGITIVE DYE)  
 PH (AS IS): 11-12 TYPICAL pH (1% SOLN): NA

**SECTION IV FIRE AND EXPLOSION DATA**

**FLASH POINT:** NA **AUTOIGNITION TEMPERATURE:**  
**FLAMMABLE LIMITS IN AIR: % BY VOL:** **LOWER:** N/A **UPPER:** N/A  
**EXTINGUISHING MEDIA:** CO2 EXTINGUISHER  
**SPECIAL FIRE FIGHTING PROCEDURES:** WATER SOLUTION - ADDITIVES WILL NOT BURN UNLESS DISTILLED FROM SOLUTION.  
**UNUSUAL FIRE AND EXPLOSION HAZARD:** NONE

**SECTION V REACTIVITY DATA**

**CONDITIONS CONTRIBUTING TO INSTABILITY:** PRODUCT IS STABLE  
**INCOMPATIBILITY:** PRODUCT IS ALKALINE - AVOID CONTACT WITH ACIDIC MATERIALS.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A  
**CONDITIONS CONTRIBUTING TO HAZARD POLYMERIZATION:** N/A WILL NOT OCCUR.

**SECTION VI HEALTH HAZARD INFORMATION**

**ROUTES OF EXPOSURE:**  
**INHALATION:** NO THRESHOLD LIMIT VALUES HAVE BEEN ESTABLISHED FOR THIS SILICATE SOLUTION. PROLONGED INHALATION OF VAPORS MAY CAUSE IRRITATION OF RESPIRATORY TRACT MUCOUS MEMBRANES.  
**SKIN CONTACT:** FULL EFFECTS NOT DEFINED.  
**SKIN ABSORPTION:** FULL EFFECT NOT DEFINED. WILL CAUSE SEVERE IRRITATION UPON CONTINUED CONTACT.  
**EYE CONTACT:** FULL EFFECT NOT DEFINED. CAN CAUSE SEVERE IRRITATION IF NOT TREATED.  
**INGESTION/INHALATION:** FULL EFFECT NOT DEFINED. IRRITATION TO MUCOUS MEMBRANES OF THE MOUTH, THROAT, ESOPHAGUS AND STOMACH.  
**EFFECTS OF OVEREXPOSURE:** **ACUTE OVEREXPOSURE:**  
**CHRONIC OVEREXPOSURE:** DUSTS AND MISTS ARE IRRITATING TO MUCOUS MEMBRANES OF THEIR RESPIRATORY TRACT, MOUTH, THROAT, ESOPHAGUS AND STOMACH. IRRITATING TO EYE AND SKIN. THE CHRONIC LOCAL EFFECT MAY CONSIST OF MULTIPLE AREAS OF SUPERFICIAL DESTRUCTION OF THE SKIN OR PRIMARY IRRITANT IN VARYING DEGREES TO RESPIRATORY TRACT TISSUES.

**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.

**INGESTION:** KEEP INDIVIDUAL CALM. DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER/MILK. KEEP AIRWAY CLEAR. CONSULT A PHYSICIAN.

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

AQUATIC TOXICITY (E.G. 96 HR. TLM):

**WASTE DISPOSAL METHOD:** FLUSH WITH WATER TO CHEMICAL SAFE AREA - USE STANDARD ABSORBENTS: SAND, EARTH, FLOOR ABSORBENT, ETC. DISPOSE IN COMPLIANCE WITH EPA AND/OR STATE REGULATIONS. STEPS TO BE TAKEN IF MATERIAL IF RELEASED OR SPILLED: FLUSH WITH WATER TO SAFE AREA. USE STANDARD ABSORBENTS. COMPLY WITH EPA AND/OR STATE REGULATIONS.

**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 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 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 FROM FREEZING. STORE AT TEMPERATURES ABOVE 32 F (0 C)

**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**