



**HAZARD RATING**

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

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

**MATERIAL SAFETY DATA SHEET**  
**VEXCON NO. AB104**

**GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:** STARSEAL® TRIPLE SET  
**VOC CONTENT:** 0 GR./LITER **CATEGORY:** NOT REQUIRED  
**COMMON NAME:** LIQUID CALCIUM CHLORIDES  
**DOT SHIPPING NAME:** IN CONTAINERS LESS THAN 119 GALS AND CONTAINERS GREATER THAN 119 GALS.: STARSEAL TRIPLE SET (NON-REGULATED)  
**HEALTH AND SAFETY:** CAUTION-MAY IRRITATE 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  
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**CHEMTREC:** 1-800-424-9300  
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**PREPARED:** MARCH 1996  
**UPDATED:** JANUARY 2008  
**PREPARED BY:** DARRYL F. MANUEL/PRESIDENT

**SECTION II HAZARDOUS INGREDIENTS**

| <b>MATERIAL OR COMPONENTS</b> | <b>CAS. NO.</b> | <b>%</b> | <b>HAZARD DATA</b> |
|-------------------------------|-----------------|----------|--------------------|
| CALCIUM CHLORIDE              | 10043-52-4      | 29%      | 5 mg/M3            |
| WATER                         |                 | 71%      |                    |

**SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS**

**BOILING POINT** 760 mm Hg: 210° F **MELTING POINT:** N/A  
**SPECIFIC GRAVITY** (H2O=1) 1.283 **VAPOR PRESSURE:** N/A  
**VAPOR DENSITY (AIR=1):** NA **SOLUBILITY IN H2O BY WT:** 100%  
**% VOLATILES BY VOL:** 77% WATER **EVAPORATION RATE (BUOH=1):**  
**APPEARANCE AND ODOR:** CLEAR, WATER WHITE  
**PH (AS IS):** 10.7-8 TYPICAL

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** (TEST METHOD) NON FLAMMABLE  
**AUTOIGNITION TEMP:** 494°F  
**FLAMMABLE LIMITS IN AIR, % BY VOL:**  
**LOWER:** N/A **UPPER:** N/A  
**EXTINGUISHING MEDIA:** N/A  
**SPECIAL FIRE FIGHTING PROCEDURES:** WATER SOLUTION  
**UNUSUAL FIRE AND EXPLOSION HAZARD:** NONE

**SECTION V REACTIVITY DATA**

**CONDITIONS CONTRIBUTING TO INSTABILITY:** THIS PRODUCT IS STABLE  
**INCOMPATIBILITY:** WATER REACTIVE MATERIALS, SUCH AS SODIUM, CAUSE EXOTHERMIC REACTION. METHYL VINYL ETHER; STARTS RUNAWAY POLYMERIZATION REACTION: REFERENCE (c) ZINC AS INGALVANIZED IRON: YIELDS HYDROGEN GAS, WHICH MAY EXPLODE UNDER THESE CONDITIONS.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A  
**CONDITIONS CONTRIBUTING TO HAZARDOUS**  
**POLYMERIZATION:** N/A

**SECTION VI HEALTH HAZARD INFORMATION**

**ROUTES OF EXPOSURE:**  
**INHALATION:** NO THRESHOLD LIMIT VALUES HAVE BEEN ESTABLISHED FOR THIS CALCIUM CHLORIDE SOLUTION. PROLONGED INHALATION OF VAPORS MAY CAUSE IRRITATION OF RESPIRATORY TRAC 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:** FULL EFFECT NOT DEFINED. IRRITATION TO MUCOUS MEMBRANES OF THE MOUTH, THROAT, ESOPHAGUS AND STOMACH.

**ACUTE OVEREXPOSURE:** DUSTS AND MISTS ARE IRRITATING TO MUCOUS MEMBRANES OF THE RESPIRATORY TRACT, MOUTH, THROAT, ESOPHAGUS AND STOMACH. IRRITATING TO EYE AND SKIN. THE CHRONIC LOCAL EFFECT AMY 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 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.

**INGESTION:** IF CONSCIOUS, IMMEDIATELY GIVE 2-4 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT. SEEK MEDICAL ATTENTION FOR IRRITATION, INGESTION OR DISCOMFORT FROM INHALATION.

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

**WASTE DISPOSAL METHOD:** FLUSH WITH WATER TO CHEMICAL SAFE AREA - USE STANDARD ABSORBENT: SAND, EARTH, FLOOR ABSORBENT, ETC. DISPOSE IN COMPLIANCE WITH EPA AND/OR STATE REGULATIONS.

**STEPS TO BE TAKEN IF MATERIAL IS 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: 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:** IMPERVIOUS GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR PVA.

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

**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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