



**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. AB106**

**GENERAL INFORMATION**

**PRODUCT IDENTIFICATION:** STARSEAL® TRIPLE SET NC

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

**COMMON NAME:** LIQUID CALCIUM NITRATE

**DOT SHIPPING NAME:** IN CONTAINERS LESS THAN 119 GALS:  
STARSEAL TRIPLE SET NC (NON-REGULATED), IN CONTAINERS  
GREATER THAN 119 GALS: CALCIUM NITRATE, 5.1, (OXIDIZER),  
UN 1454, III

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

**SECTION I**

**MANUFACTURER:** VEXCON CHEMICALS  
**EMERGENCY NO:** 1-800-858-2828  
**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**

<u>MATERIAL OR COMPONENT</u>	<u>CAS. NO.</u>	<u>%</u>	<u>HAZARD DATA</u>
CALCIUM NITRATE	10124-37-5	38%	ORAL: LD599 390 mg/Kg SKIN: 500 mg/24 H
MODERATE			
ADDITIVES	31138-65-5	2%	EYE: 500 mg/24 H SEVERE
WATER		6%	NON HAZARDOUS N/A

**SECTION III PHYSICAL/CHEMICAL  
CHARACTERISTICS**

**BOILING POINT** 760 mm Hg: 210° F **MELTING POINT:** N/A  
**SPECIFIC GRAVITY** (H2O=1) 1.33 **VAPOR PRESSURE:** N/A  
**VAPOR DENSITY** (AIR=1):N/A **SOLUBILITY IN H2O BY WT:** 100%  
**% VOLATILES BY VOL:** 48% **EVAPORATION RATE (BUOH=1):**  
**PH (AS IS):** 5-6 TYPICAL **PH (1% SOLN):** 6- 7 TYPICAL  
**APPEARANCE/ODOR:** COLORLESS, BASICALLY ODOR FREE, CLEAR

**SECTION IV FIRE AND EXPLOSION  
HAZARD DATA**

**FLASH POINT:** (TEST METHOD) NON FLAMMABLE

**AUTOIGNITION TEMP:**

**FLAMMABLE LIMITS IN AIR, % BY VOL:**

**LOWER:** N/A **UPPER:** N/A

**EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** NON-FLAMMABLE, DRY SOLIDS  
WILL SUPPORT COMBUSTION

**UNUSUAL FIRE AND EXPLOSION HAZARD:** EXPOSURE  
TO HEAT OR FLAME CAN CAUSE EMISSION OF  
HAZARDOUS NITROGEN FUMES

**SECTION V REACTIVITY DATA**

**CONDITIONS CONTRIBUTING TO INSTABILITY:** THIS PRODUCT IS  
STABLE

**INCOMPATIBILITY:** STRONG ACIDS, HIGH HEAT AND EASILY  
OXIDIZABLE MATERIALS CAUSE EXOTHERMIC REACTION.

**HAZARDOUS DECOMPOSITION PRODUCTS:** EXPOSURE TO HEAT OR  
FLAME CAN CAUSE EMISSION OF HAZARDOUS NITROGEN FUMES.

**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:**  
KEEP AWAY FROM STRONG ACIDS AND GAS THIOYALE.

**SECTION VI HEALTH HAZARD INFORMATION**

**HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR  
CLASSIFICATION SOURCE**

**ROUTES OF EXPOSURE:**

**INHALATION:** NO THRESHOLD LIMIT VALUES HAVE BEEN ESTABLISHED  
FOR THIS. 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:** ACUTE LARGE ORAL DOSE CAN BE FATAL

**ACUTE OVEREXPOSURE:** ACUTE LARGE ORAL DOSE CAN BE FATAL

**CHRONIC OVEREXPOSURE:** DIZZINESS, ABDOMINAL CRAMPS, VOMITING  
DIARRHEA, WEAKNESS AND COLLAPSE. CHRONIC, SMALL REPEAT  
DOSAGES CAN CAUSE WEAKNESS, DEPRESSION, HEADACHE AND  
MENTAL IMPAIRMENT.

**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:** NEUTRALIZE WITH LIME; FLUSH WITH WATER TO CHEMICAL SAFE AREA - USE STANDARD ABSORBENT: SAND, EARTH, FLOOR ABSORBENT, ETC. DISPOSE IN COMPLIANCE WITH EPA AND/OR STATE REGULATIONS. DO NOT ALLOW DRIED OR SPILLED MATERIAL TO REMAIN NEAR FLAMMABLE SUBSTANCES.

**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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