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MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL AND MANUFACTURER IDENTIFICATION

Issued by: JEEN INTERNATIONAL CORPORATION
24 MADISON ROAD
FAIRFIELD, NJ 07004
TEL#: 973-439-1401

Chemtrec Emergency Telephone No.: 800-424-9300
*Chemtrec Int'l Telephone No.: 703-527-3887
*Collect Calls Accepted

PRODUCT NAME: **VITAMIN E CG**
CAS #: 58-95-7
RO. #: 01-4213
CODE #: 60526
SYNONYMS:
2,5,7,8-TETRAMETHYL-2-(4,8,12-TRIMETHYLTRIDECYL)-6-CHROMANOL ACETATE; DL-ALPHA-TOCOPHERYL ACETATE
(PHARM. GRADE 98%)
CHEMICAL FAMILY: **VITAMIN E CG**
FORMULA: $C_{31}H_{52}O_3$
MOLECULAR WEIGHT: 472.8
FORMULATION(S): NOT APPLICABLE

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME (CAS#):	EXPOSURE LIMITS	SARA TITLE III	OSHA PEL/ACGIH TLV
	CONCENTRATION		
SECTION 313 2,5,7,8-TETRAMETHYL-2-(4,8,12-TRIMETHYLTRIDECYL)-6-CHROMANOL ACETATE (58-95-7):	98%	NOT ESTABLISHED	NOT LISTED

SECTION III - HAZARD STATEMENT

CAUTION! MAY CAUSE SKIN IRRITATION

SECTION IV - PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE & ODOR: CLEAR, YELLOW VISCOUS OIL; NEARLY ODORLESS
BOILING POINT: 224°C AT 0.2 mm/Hg; 217°C at 0.4 mm/Hg
VAPOR PRESSURE (mm/Hg): 0.02 @ 146.5°C
VAPOR DENSITY (AIR=1): NOT KNOWN
SPECIFIC GRAVITY (H₂O=1): 0.9544 @ 20°C; 0.9515 @ 25°C
MELTING POINT: -27.5°C
EVAPORATION RATE(BUTYL ACETATE=1): NOT KNOWN
SOLUBILITY IN H₂O: INSOLUBLE
SOLUBLE IN: FREELY SOLUBLE IN ETHER, ACETONE, AND CHLOROFORM.
LESS READILY SOLUBLE IN ALCOHOL.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): > 200°F
FLAMMABLE LIMITS: NOT APPLICABLE
EXTINGUISHING MEDIA:
WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, FOAM, OR AS APPROPRIATE FOR FIRE IN SURROUNDING MATERIALS.
FIRE FIGHTING PROCEDURES:
WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

SECTION VI - REACTIVITY DATA

STABILITY: STABLE UNDER NORMAL CONDITIONS
CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: TOXIC FUMES OF CARBON DIOXIDE AND CARBON MONOXIDE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NONE



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SECTION VII - HEALTH HAZARD DATA

RELEVANT ROUTE(S) OF EXPOSURE: SKIN CONTACT, INGESTION
SHORT-TERM/LONG-TERM EFFECTS OF EXPOSURE (SIGNS AND SYMPTOMS/ORGANS AFFECTED):
DIRECT CONTACT MAY CAUSE SKIN IRRITATION. ORAL INTAKE OF GREATER THAN 400 UNITS PER DAY FOR PROLONGED PERIODS WILL CAUSE FATIGUE, WEAKNESS, AND NAUSEA. THESE SYMPTOMS WILL CEASE UPON WITHDRAWAL FROM VITAMIN E INTAKE.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
ORAL INTAKE OF HIGH LEVELS OF VITAMIN E HAS BEEN SHOWN TO AGGRAVATE BLOOD COAGULATION DEFICIENCIES IN INDIVIDUALS WITH VITAMIN K DEFICIENCY.

SECTION VII - HEALTH HAZARD DATA

LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NTP?	IARC MONOGRAPHS?	OSHA?
NO	NO	NO

EXPERIMENTAL TOXICOLOGY

ORAL TOXICITY:
ACUTE ORAL DL₅₀ (RAT) OF GREATER THAN 16,000 mg/kg BODY WEIGHT DURING A 10 DAY OBSERVATION PERIOD CLASSIFIES THIS MATERIAL AS RELATIVELY HARMLESS ORALLY UNDER THAT STUDY CONDITIONS UTILIZED.

DERMAL TOXICITY:
ACUTE DERMAL LD₅₀ (RAT) FOLLOWING A SINGLE APPLICATION IS GREATER THAN 3000 mg/Kg BODY WEIGHT. THIS STUDY REVEALED NO TREATMENT RELATED SYMPTOMS OR PATHOLOGICAL CHANGES OTHER THAN SKIN IRRITATIONS.

EYE IRRITATION:
AN EYE IRRITATION STUDY INDICATED THAT THIS MATERIAL WAS NON-IRRITATING TO THE EYES OF RABBITS UNDER THE STUDY CONDITIONS UTILIZED.

PRIMARY SKIN IRRITATION:
A STUDY WITH RABBITS PRODUCED A SCORE OF 0.5, INDICATING THAT THIS MATERIAL WAS PRACTICALLY NON-IRRITATING TO THE SKIN OF RABBITS UNDER THE STUDY CONDITIONS UTILIZED.

FIRST AID

FOR EYE CONTACT:	FLUSH THOROUGHLY WITH WATER.
FOR SKIN CONTACT:	WASH AREA WITH SOAP AND WATER.
IF INHALED:	REMOVE TO FRESH AIR. IF DISCOMFORT OCCURS OR PERSISTS, CONTACT A PHYSICIAN.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: NONE REQUIRED
VENTILATION -LOCAL EXHAUST: NOT REQUIRED
MECHANICAL (GENERAL): RECOMMENDED
OTHER: NOT REQUIRED
PROTECTIVE GLOVES: RUBBER
EYE PROTECTION: SAFETY GLASSES
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: WEAR PROTECTIVE CLOTHING TO AVOID SKIN CONTACT.

PRECAUTIONS:
AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING VAPOR OR MIST. USE WITH ADEQUATE VENTILATION. WHEN HANDLING, USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS NEEDED. WASH THOROUGHLY AFTER HANDLING.

STORAGE AND HANDLING CONDITIONS:
STORE AT 59° TO 86°F IN TIGHT, LIGHT-RESISTANT CONTAINERS.

THIS MATERIAL IS RELATIVELY STABLE TOWARDS STRONG ACIDS AND HEAT AND IS UNAFFECTED BY THE OXIDIZING INFLUENCES OF AIR, LIGHT, AND ULTRAVIOLET LIGHT. HOWEVER, IT IS HYDROLYZED BY MOISTURE IN THE PRESENCE OF ALKALIS OR STRONG ACIDS TO FREE ALPHA-TOCOPHEROL WHICH IS THEN RAPIDLY OXIDIZED BY AIR. EXPOSURE TO THESE CONDITIONS MAY AFFECT THE INTEGRITY OF THE PRODUCT. NO AFFECT ON THE SAFETY OF THIS PRODUCT IS EXPECTED UPON EXPOSURE TO THE ABOVE CONDITIONS.



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SECTION IX - SPILL/RELEASE REPORTING, SPILL CONTROL, WASTE TREATMENT AND DISPOSAL

SPILL/RELEASE REPORTING:

SPILLS OR RELEASES OF THIS MATERIAL NEED NOT BE REPORTED TO THE EPA NATIONAL RESPONSE CENTER. STATE OR LOCAL REGULATIONS MAY REQUIRE REPORTING.

SPILL CONTROL:

ABSORB LIQUIDS WITH ABSORBENT MATERIAL AND SCOOP UP SOLID MATERIALS. PLACE ABSORBENTS AND SOLIDS INTO SUITABLE LABELED CONTAINER. WASH SPILL AREA WITH SOAPY WATER AND FLUSH WASH TO SEWER WITH LARGE AMOUNTS OF WATER.

WASTE TREATMENT & DISPOSAL:

PLACE WASTE IN SEALED CONTAINERS AND TRANSPORT TO A TREATMENT, RECOVERY, OR INCINERATION FACILITY APPROVED FOR LIQUID INDUSTRIAL WASTES.

SECTION X - SHIPPING INFORMATION

DOT/IATA:

NOT REGULATED

RCRA:

NOT REGULATED

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