



24 Madison Road, Fairfield, New Jersey 07004, USA
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
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MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL AND MANUFACTURER IDENTIFICATION

| | | | |
|----------------------|--|-------------------------------------|---|
| Manufacturer's Name: | JEEN INTERNATIONAL CORPORATION 24 MADISON ROAD FAIRFIELD, NJ 07004 TEL#: 973-439-1401 | Last Revision Date: | November 4, 2000 |
| | | Chemtrec Emergency Telephone No.: | 800-424-9300 |
| | | *Chemtrec Emergency Int'l Tel. No.: | 703-527-3887 (*Collect Calls Accepted) |
| PRODUCT NAME: | VITAMIN E ACETATE, USP, FCC | | |
| CAS Number: | 7695-91-2 | | |

SECTION 2- COMPOSITION AND INGREDIENTS

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| Name: | Vitamin E Oil (CAS No. 7695-91-2) |
| Chemical Name: | dl-alpha-Tocopherol Acetate |

SECTION 3- PHYSICAL DATA

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| Appearance & Odor: | Clear Or Slightly Greenish Yellow Viscous Oily Liquid |
| Boiling Point: | NA |
| Acid Value: | < = 0.05 |
| Free Tocopherol: | 0.13 % |
| Density: | 0.950 /ml |

SECTION 4- STABILITY AND REACTIVITY

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| Stability: | Stable, even under fire exposure conditions and not water reactive |
| Physical Conditions to Avoid: | Temp. > 200 C , source of ignition, light, airborne & dust accumulation |
| Hazardous Polymerization: | Will not occur |
| Hazardous Decomposition Products: | Carbon dioxide, Carbon monoxide and Oxides of nitrogen |
| Incompatibility materials to avoid: | Bases, Reducing agents and Trace minerals |

SECTION 5- HEALTH HAZARD INFORMATION

In case of any exposure to large quantities of this material may cause reversible skin discoloration. Follow instructions in Section 6. First aid.

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| Carcinogenicity: | Not listed by NTP, IARC, or OSHA |
| Acute effects: | No adverse effects known |
| Chronic effects: | No adverse effects known |

SECTION 6- FIRST AID

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| Inhalation: | Remove to fresh air. If discomfort occurs or persists, get medical attention |
| Skin Contact: | Wash with soap and plenty of water. Remove contaminated clothing and shoes. |
| Eye Contact: | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open to assure complete contact with water. If irritation occurs or persists, get medical attention. |
| Ingestion: | If large quantities of this material are swallowed, Contact a physician or poison control center. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. |



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SECTION 7- HANDLING AND STORAGE CONDITIONS

Storage Temp.: Should be less than 25 deg. C
Shelf Life: About 24 months
Special Sensitivity: Humidity / Light
Handling & Storage Precautions:

Do not generate dust or expose to ignition sources. Mixing / drying should be performed in devices equipped with explosion relief or suppression systems or under inert conditions. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing dust and use proper personal protective equipment when handling. Wash thoroughly after handling. Keep container tightly closed when not in use. Store out of direct sunlight in a cool place well ventilated.

SECTION 8- FIRE FIGHTING AND EXPLOSION HAZARD DATA

Flash Point: NA
Extinguishing Media: Water, Carbon Dioxide, Dry Chemical, Foam
Unusual Fire & Explosion Hazards: Severe dust explosion hazard.
Fire Fighting Instructions: Wear NIOSH/MSHA approved positive pressure, self contained breathing apparatus and full protective turn out gear. Use caution in approaching fire. Remove containers of this material if it can be done safely. Use water to keep fire exposed containers cool. Material is considered non-flammable.
Lower Explosion Limit (LEL): NA
Upper Explosion Limit (UEL): NA

SECTION 9- SPILL OR RELEASE PROCEDURES

Spill Clean Up: Use proper personal protective equipment and special clothing, shut off the source of the spill or leak it is safe to do so. Eliminate possible ignition sources. Follow appropriate grounding procedures, scoop or shovel spilled material into a suitable labeled open head drum. Secure the drum cover and move the container to a safe holding area. Wash spill area thoroughly with soapy water.

SECTION 10- EXPOSURE CONTROL METHODS / PERSONAL PROTECTION

Engineering Controls: Ventilation should be adequate unless the process generates airborne dust or fume.
Personal Protection: Respirator Type & Glove material: Half face, nontoxic dust/mist filter. Use any plastic or rigid rubber glove, it is recommended if there is a potential for skin contact.
Skin Protection: Use protective clothing (lab coats, disposable coveralls, etc.) in both production and laboratories area.
Eye Protection: Safety glasses required, safety goggles recommended.

SECTION 11- DISPOSAL INFORMATION

This Material is suitable for incineration. Empty containers must be triple rinsed prior to disposal, recycling or reuse.



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SECTION 12- TRANSPORTATION INFORMATION

County / Community: USA
Enforcement Agency: US DOT. Status: Not Regulated
International Maritime Dangerous Goods IMDG: Not Regulated
Enforcement Agency: Int'l Air Transport Association. ICAO Status: Not Regulated

SECTION 13- REGULATORY INFORMATION

This document has been prepared in accordance with the MSDS of the WHMIS controlled product regulations:

WHMIS Ingredient Disclosure List: None
WHMIS Status: Non Controlled
Law/Regulation: Hazardous Chemical Reporting: Community Right-To-Know 40CFR370
Common Name: SARA Title III Section 312-Hazardous Chemical Inventory
Enforcement Agency: Environmental Protection Agency (EPA)
Governing Authority: USA
Criteria Met: Fire

SECTION 14- ECOLOGICAL INFORMATION

1- Elimination Information

Test Method: OECD 301E / EEC 84-449,C.3, Analysis Method: DOC reduction, Elimination Degree <20%
Test Method: OECD 302B / ISO9888 / EEC 88/302, C, Analysis Method: DOC reduction, Elimination Degree >70%

2- Ecotoxic Effects on Fish & Bacteria

Test Method: DIN 38412, L1, L15. LC50 / Lecuciscus idus/: >220<460mg/1/96h. NOEC:220MG/1 Toxicity to Fish
Test Method: DIN38412 Part 8, EC/LC50(16h):210 mg/1, EC/LC50 (16h):250 mg/1, ECLC90 (16h):mg/1.

3- Behavior & Environmental Fate.

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentration. Inhibition of respiration in activated sludge EC20 > 1000 mg/1 (ISO 8192 / OECD 209 / EEC 88/302 C).

Further Information: Do not discharge product into natural water without pretreatment. COD Value: 1490 mg/g.

SECTION 15- ADDITIONAL INFORMATION

NFPA Rating: These ratings are based on NFPA Cod 704 and are intended for use by emergency personnel to determine the immediate hazards of a material.

Fire: 1
Health: 0
Reactivity: 0

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| IRAC: | Not Listed | National Fire Protection Association (USA) |
| ACGIH: | Not Listed | Health 2 |
| NTP: | Not Listed | Flammability 1 |
| OSHA: | Not Listed | Reactivity 0 |
| | | Specific Hazard - |

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|-----------------------------|----------|
| HMIS (USA) | |
| Health Hazard: | 1 |
| Fire Hazard: | 1 |
| Reactivity: | 0 |
| Personal Protection: | - |

Personal Protective Equipment: Protective Gloves (impervious), Lab coat, Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Splash goggles.

SECTION 16- OTHER INFORMATION

The information presented on this MSDS is , to the best of our knowledge, accurate and reliable. It is provided in good faith without warranty or acceptance of any liability on the part of our company side Jeen International. It is the responsibility of the user to evaluate the relevance and completeness of this information for their application and to determine the safety, suitability and status under applicable regulations relating to this product or byproducts.

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