



**Cosmetic  
Supplies  
USA, Inc.**

# Material Safety Data Sheet

8810 Commodity Cir # 20,  
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## ALPHA TOCOPHEROL

Catalog Number: 1667600

Revision Date:

July 27, 2005

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Common Name: Alpha Tocopherol

Manufacturer: U. S. Pharmacopeia

Responsible Party: Reference Standards Technical Services

Mailing Address: 8810 Commodity Cir # 20, Orlando, FL 32819-9066

Phone: 877-926-7872

Product Use: USP Reference Standards and Authentic Substances are used for chemical tests and assays in analytical, clinical, pharmaceutical, and research laboratories.

### SECTION 2 - HAZARD INFORMATION

Adverse Effects: Vitamin E is an essential nutritional element naturally present in many foods. It displays no pharmacological effects or toxicity with normal dietary intakes. Possible allergic reaction to material if inhaled, ingested or in contact with skin.

Overdose Effects: Very large doses may cause blurred vision, diarrhea, dizziness, headache, nausea, stomach cramps, and unusual tiredness or weakness.

Acute: Possible eye, skin, gastrointestinal and/or respiratory tract irritation.

Chronic: Possible hypersensitization.

Medical Conditions Aggravated by Exposure: Hypersensitivity to material.

Cross Sensitivity: n/f

Target Organs: n/f

For additional information on toxicity, see Section 11.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: Alpha Tocopherol

Formula: C29H50O2

Synonym: Vitamin E; dl-alpha tocopherol

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**Chemical Name:** 2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8,-tetramethyl-2-(4,8,12-trimethyltridecyl)-

**CAS:** 10191-41-0

**RTECS Number:** GA8746000

**Chemical Family:** Benzopyran derivative

**Therapeutic Category:** Vitamin E supplement

**Composition:** Pure Material

## SECTION 4 - FIRST AID MEASURES

**Inhalation:** May cause irritation. Remove to fresh air.

**Eye:** May cause irritation. Flush with copious quantities of tepid water.

**Skin:** May cause irritation. Flush with copious quantities of water.

**Ingestion:** May cause irritation. Flush out mouth with water. This material is variably absorbed from the gastrointestinal tract.

**General First Aid Procedures:** Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing give artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.

### Note to Physicians

**Overdose Treatment:** For current information about the treatment of overdose, consult a certified Regional Poison Control Center by calling the number listed in your local telephone directory.

## SECTION 5 - FIREFIGHTING MEASURES

**Extinguisher Media:** Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

**Fire and Explosion Hazards:** This material is assumed to be combustible.

**Firefighting Procedures:** As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Spill Response:** Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing mist. Ventilate area and wash spill site. Place spillage in appropriately labelled container for disposal.

## SECTION 7 - HANDLING AND STORAGE

**Handling:** As a general rule, when handling USP Reference Standards avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

**Storage:** Store in tight, light-resistant container under an inert gas atmosphere immediately after opening as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

## SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls:** Engineering controls such as exhaust ventilation are recommended.

**Respiratory Protection:** Use a NIOSH-approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring. In the event that a respirator is not required, an approved dust mask should be used.

**Gloves:** Chemically compatible

**Eye Protection:** Safety glasses or goggles

**Protective Clothing:** Protect exposed skin.

**Exposure Limits:** n/f

<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>
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Properties as indicated on the MSDS are general and not necessarily specific to the USP Reference Standard Lot provided.

**Appearance and Odor:** Pale yellow, slightly viscous oil; nearly odorless.

**Odor Threshold:** n/f

**pH:** n/f

**Melting Range:** 2.5 - 3.5° C

**Boiling Point:** n/f

**Flash Point:** 240° C (method not specified)

**Autoignition Temperature:** n/f

**Evaporation Rate:** n/f

**Upper Flammability Limit:** n/f

**Lower Flammability Limit:** n/f

**Vapor Pressure:** n/f

**Vapor Density:** n/f

**Specific Gravity:** 0.950

**Solubility in Water:** Practically insoluble

**Fat Solubility:** n/f

**Other Solubility:** Soluble in alcohol; miscible with acetone, with chloroform, with ether, and with vegetable oils.

**Partition Coefficient: n-octanol/water:** n/f

**Percent Volatile:** n/f

**Reactivity in Water:** n/f

**Explosive Properties:** n/f

**Oxidizing Properties:** n/f

**Formula:** C<sub>29</sub>H<sub>50</sub>O<sub>2</sub>

**Molecular Weight:** 430.71

**SECTION 10 - STABILITY AND REACTIVITY**

**Conditions to Avoid:** Avoid exposure to air and light.

**Incompatibilities:** Ferric and silver salts.

**Decomposition Products:** When heated to decomposition material emits acrid smoke and irritating fumes. Emits toxic fumes under fire conditions.

**Stable?** Yes      **Hazardous Polymerization?** No

**SECTION 11 - TOXICOLOGICAL PROPERTIES**

**Oral Rat:** LD50: n/f

**Oral Mouse:** LD50: n/f

**Other Toxicity Data:** n/f

**Irritancy Data:** n/f

**Corrosivity:** n/f

**Sensitization Data:** n/f

**Listed as a Carcinogen by:**      **NTP:** No      **IARC:** No      **OSHA:** No

**Other Carcinogenicity Data:** No

**Mutagenicity Data:** n/f

**Reproductive and Developmental Effects:** Pregnancy problems in humans have not been documented with the intake of normal daily requirements of vitamin E. In one study, an increased frequency of cleft palate was observed in the offspring of mice given 500-1000 times the human RDA of vitamin E (15 mg/kg).

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecological Information:** n/f

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Disposal:** Dispose of waste in accordance with all applicable Federal, State and local laws.

**SECTION 14 - TRANSPORT INFORMATION**

**Shipping Name:** n/f

**Class:** n/f

**UN Number:** n/f

**Packing Group:** n/f

**Additional Transport Information:** n/f

**SECTION 15 - REGULATORY INFORMATION**

**U.S. Regulatory Information:** n/f

**International Regulatory Information:** EINECS # 233-466-0

**SECTION 16 - OTHER INFORMATION**

**Revision:**                    27-Jul-05

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**ALPHA TOCOPHEROL****Catalog Number:** 1667600**Revision Date:**July 27, 2005

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**Previous Revision Date:**

25-Jul-01