

# Vitamin E MSDS (Material Safety Data Sheet)

## Section 1: Product Name and Identification

- **Product Name:** [Vitamin E](#)
- **Chemical Name:** Tocopherol
- **Synonyms:** Alpha-Tocopherol, Vitamin E Oil
- **CAS Number:** 59-02-9
- **Use of Product:** Dietary supplement, skincare formulations, antioxidant applications

## Section 2: Composition/Ingredients

- **Chemical Composition:** Vitamin E (Tocopherol) - 100%
- **Molecular Formula:** C<sub>29</sub>H<sub>50</sub>O<sub>2</sub>
- **Molecular Weight:** 430.71 g/mol
- **Impurities or Additives:** None detected in pure Vitamin E

## Section 3: Hazards Identification

- **GHS Classification:**
  - Not classified as a hazardous substance under GHS standards.
- **Hazard Statements:**
  - None for standard handling of pure Vitamin E.
- **Precautionary Statements:**
  - Avoid ingestion above recommended levels.
  - Prevent eye and skin contact with concentrated forms.

## Section 4: First Aid Measures

- **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
- **Skin Contact:** Wash affected area with soap and water. Rinse thoroughly. Discontinue use if irritation develops.
- **Inhalation:** Move to fresh air. Seek medical advice if symptoms develop.
- **Ingestion:** Rinse mouth thoroughly. Do not induce vomiting. Consult a healthcare professional.

## Section 5: Handling and Storage

- **Handling:**
  - Avoid excessive heat and direct sunlight.

- Use protective gloves when handling concentrated forms.
- **Storage:**
  - Keep in tightly sealed containers.
  - Store in a cool, dry place away from oxidizing agents.

## Section 6: Exposure Controls/Personal Protection

- **Engineering Controls:**
  - Use in well-ventilated areas.
- **Personal Protective Equipment (PPE):**
  - **Eye Protection:** Safety goggles if splashing is possible.
  - **Hand Protection:** Chemical-resistant gloves for prolonged contact.
  - **Skin Protection:** Protective clothing optional for pure oil handling.

## Section 7: Physical and Chemical Properties

- **Appearance:** Clear, oily liquid.
- **Odor:** Mild, characteristic odor.
- **Melting Point:** -3°C (26.6°F)
- **Boiling Point:** 200°C (392°F) approximate.
- **Solubility:** Insoluble in water; miscible in oils and alcohols.
- **pH:** Neutral in water.
- **Flashpoint:** >210°C (>410°F).
- **Auto-ignition Temperature:** Data not available.

## Section 8: Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Conditions to Avoid:** Prolonged exposure to air, heat, or direct light.
- **Materials to Avoid:** Strong oxidizers and bases.
- **Hazardous Decomposition Products:** May produce carbon monoxide and carbon dioxide at high temperatures.

## Section 9: Toxicological Information

- **Routes of Exposure:** Skin contact, ingestion.
- **Acute Toxicity:** Low toxicity when used as intended.
- **Chronic Exposure:** Prolonged ingestion above recommended dosages may cause gastrointestinal upset or fatigue.
- **Symptoms of Overexposure:** Nausea, diarrhea, or mild skin irritation.
- **Carcinogenicity:** Not classified as carcinogenic.
- **Reproductive Effects:** No known adverse effects.

## Section 10: Disposal Considerations

- **Waste Disposal:**
  - Dispose of in accordance with local, regional, and national regulations.
  - Avoid disposing into sewage systems or natural waterways.
- **Container Disposal:**
  - Empty containers may retain some product residue. Dispose of responsibly.