

**Material Safety Data Sheet (MSDS)**  
**Ethyl Cinnamate**

Prepared by Tuoda Industry Limited

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**Section 1: Identification**

Product Name: Ethyl Cinnamate

CAS Number: 103-36-6

EC Number: 203-105-6

Molecular Formula:  $C_{11}H_{12}O_2$

Recommended Use: Flavoring and fragrance agent; chemical intermediate

Manufacturer: Tuoda Industry Limited

**Section 2: Hazard Identification**

Classification (GHS):

- Eye Irritation Category 2
- Skin Sensitization Category 1

Signal Word: Warning

Hazard Statements:

- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation

## Precautionary Statements:

- P280: Wear protective gloves/eye protection
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes
- P333 + P313: If skin irritation or rash occurs: Get medical advice

## Label Elements:

- Exclamation Mark symbol (GHS07)

**Section 3: Composition/Information on Ingredients**

Substance Name: Ethyl Cinnamate

CAS No.: 103-36-6

EC No.: 203-105-6

Content (%):  $\geq 99\%$

**Section 4: First Aid Measures**

Inhalation: Remove to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash affected area with soap and water. Remove contaminated clothing.

Eye Contact: Rinse thoroughly with water for at least 15 minutes. Get medical advice.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately.

**Section 5: Firefighting Measures**

Suitable Extinguishing Media: Dry chemical, carbon dioxide, alcohol-resistant foam, or water spray

Specific Hazards: Combustible liquid. Vapors may form explosive mixtures with air.

Protective Equipment: Firefighters should wear full protective gear and self-contained breathing apparatus.

**Section 6: Accidental Release Measures**

Personal Precautions: Wear protective equipment to prevent exposure. Ensure adequate ventilation.

Environmental Precautions: Avoid release to environment. Prevent further leakage if safe to do so.

Methods for Cleanup: Absorb with inert material (e.g., dry sand), then collect and place in suitable containers for disposal.

**Section 7: Handling and Storage**

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Use in well-ventilated areas.

Storage: Keep container tightly closed in a cool, dry, and well-ventilated area away from heat and ignition sources.

**Section 8: Exposure Controls/Personal Protection**

Engineering Controls: Ensure good ventilation or local exhaust

Personal Protective Equipment (PPE):

- Eye Protection: Safety goggles
- Skin Protection: Chemical-resistant gloves
- Respiratory Protection: In case of insufficient ventilation, use appropriate respiratory protection

**Section 9: Physical and Chemical Properties**

Appearance: Colorless to pale yellow liquid

Odor: Sweet, fruity, cinnamon-like

pH: Not applicable

Boiling Point: 271 °C

Flash Point: 123 °C

Refractive Index (20°C): 1.5610 - 1.5630

Specific Gravity (20°C): 1.045 - 1.055

Solubility: Insoluble in water, soluble in ethanol and organic solvents

Vapor Pressure (25°C): < 0.01 mmHg

**Section 10: Stability and Reactivity**

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Heat, sparks, open flame

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides (CO, CO<sub>2</sub>)

**Section 11: Toxicological Information**

Acute Toxicity: Not classified

Skin Irritation: May cause allergic skin reaction

Eye Irritation: Causes serious eye irritation

Sensitization: May cause sensitization by skin contact

Carcinogenicity, Mutagenicity, Reproductive Toxicity: Not classified

## Section 12: Ecological Information

Ecotoxicity: No data available

Persistence and Degradability: Expected to be biodegradable

Bioaccumulation Potential: Low potential

Mobility in Soil: No data available

## Section 13: Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Do not discharge into drains or environment.

## Section 14: Transport Information

UN Number: Not regulated

Proper Shipping Name: Not regulated for transport

Hazard Class: Not applicable

Packing Group: Not applicable

Marine Pollutant: No

## Section 15: Regulatory Information

Complies with EU, US, and Chinese chemical regulations. Listed in TSCA, EINECS.

## Section 16: Other Information

The information provided in this SDS is correct to the best of our knowledge at the date of its publication. The data is intended only as a guide for safe handling, use, processing, storage, transportation, disposal, and release. Tuoda Industry Limited shall not be held liable for any damage resulting from handling or contact.