

# SAFETY DATA SHEET

# **PhytoTechnology Laboratories®**

### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: trans-Cinnamic Acid

PRODUCT NUMBER: C283

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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www.phytotechlab.com

1-800-535-5053 - US Only EMERGENCY PHONE NUMBER:

1-352-323-3500 - International

**RECOMMENDED USE:** For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

**GHS** Classification:

H315 – Skin irritation (Category 2)

H319 – Eye irritation (Category 2A)

H335 – Specific target organ toxicity – Respiratory system – single exposure (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Warning

**Hazard Statements:** 

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

**Precautionary Statements:** 

Signal Word:

P261 – Avoid breathing dust.

P280 – Wear protective gloves/protective

clothing/eye protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

(E)-3-Phenyl-2-propenoic Acid Synonyms:

CAS No.: 140-10-3 Formula:  $C_9H_8O_2$ 

Molecular Weight: 148.16 g/mol

EC No.: 205-398-1

Ingredient	CAS Number	Percent	Hazardous
trans-Cinnamic Acid	140-10-3	>99 %	No exposure limits established by OSHA or ACGIH

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#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

**First Aid Procedures Route of Entry Symptoms** Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Safely remove victim to fresh air. If not breathing, institute Inhalation May cause irritation to respiratory cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. **Eye Contact** Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation blurred vision. persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation itching or inflammation.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon dioxide and carbon monoxide.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs):

No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

pH (0.005 g/L): Under Development (8.5-10.5 suspected range) (solvent dependant), Aq. solns. are more acidic

Solubility: Slightly soluble in water, more soluble in NaOH or KOH

Melting Point: 131-134 °C

Vapor Density: No data available
Vapor Pressure: No data available
Odor: May have slight odor
Odor Threshold: No data available
Viscosity: No data available
Relative Density: 1.2475 g/cm³

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range: 300 °C (572° F)

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

Auto-ignition Temperature:

No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Dust generation, incompatibles

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide

# 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): 2500

 $LD_{50}$  (IP-Rat)(mg/Kg): 1600

LD<sub>50</sub> (Oral-Mouse)(mg/Kg): 5000

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Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with

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Irritation, itching, gastrointestinal upset, sneezing, coughing, headache, nausea, vomiting

Overexposure:

Specific Target Organ

Toxicity:

Single Exposure: Inhalation – may cause respiratory irritation

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions None identified

Aggravated By Exposure:

Routes of Entry:

Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: GD7850000

# The toxicological properties of this product have not been thoroughly investigated

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

# 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

# 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

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### 15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS NO.: 140-10-3 trans-Cinnamic acid New Jersey Right to Know Components: CAS NO.: 140-10-3 trans-Cinnamic acid

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

### 16. OTHER INFORMATION

HMIS Rating: Health Hazard Chronic Health Hazard Flammability

NFPA Rating:

2
1
0
Health Hazard Fire Hazard Reactivity Hazard Special Hazard
2
1
0

Phyto Technology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Phyto Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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**Physical Hazard** 

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