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## MATERIAL SAFETY DATA SHEET (MSDS)

### CAFFEIC ACID (3,4-DIHYDROXYCINNAMIC ACID)

#### 1 - Chemical Product

Product Name: 3,4-Dihydroxycinnamic acid 99+% predominantly trans isomer Material Safety Data Sheet  
 Synonym: Caffeic acid; 3,4-Dihydroxybenzeneacrylic acid, 3-(3,4-Dihydroxyphenyl)-2-propenoic acid

Cas No: 331-39-5

Product Coad: C0054800050

#### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
331-39-5	3,4-Dihydroxycinnamic acid	99.0+	206-361-2

Hazard Symbols: XI  
 Risk Phrases: 36/37/38

#### 3 - HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin. The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

#### 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

#### 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

#### 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

Avoid generating dusty conditions. Provide ventilation.

#### 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed.

Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Storage:

Store in a cool, dry place. Keep container closed when not in use.

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Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 331-39-5: Personal Protective Equipment Eyes: Wear safety glasses and chemical goggles if splashing is possible.

**Skin:**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to minimize contact with skin.

**Respirators:**

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Powder

Color: yellow to green

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 194.00 - 198.00 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: soluble in hot water

Specific Gravity/Density:

Molecular Formula: C<sub>9</sub>H<sub>8</sub>O<sub>4</sub>

Molecular Weight: 180.16

**10 - STABILITY AND REACTIVITY****Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Dust generation.

**Incompatibilities with Other Materials:**

Strong oxidizing agents, strong bases.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

**11 - TOXICOLOGICAL INFORMATION****RTECS#:**

CAS# 331-39-5: GD8950000 LD50/LC50:

Not available.

**Carcinogenicity:**

3,4-Dihydroxycinnamic acid - California: carcinogen, initial date 10/01/94 IARC: Group 2B carcinogen Other:

See actual entry in RTECS for complete information.

**12 - ECOLOGICAL INFORMATION****13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**14 - TRANSPORT INFORMATION**

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**MATERIAL SAFETY DATA SHEET (MSDS)****CAFFEIC ACID (3,4-DIHYDROXYCINNAMIC ACID)**

IATA

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

IMO

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

RID/ADR

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing group:

**15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system  
and skin.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 331-39-5: No information available.

Canada

CAS# 331-39-5 is listed on Canada's DSL List.

CAS# 331-39-5 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 331-39-5 is not listed on the TSCA inventory.

It is for research and development use only.

**16. Other Information****Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**