

**Section 1. Product and Company Identification**

<b>Product Name</b>	Caffeic acid
<b>Product ID</b>	C0121
<b>Chemical Name (Synonyms)</b>	3,4-Dihydroxycinnamic acid
<b>Supplier</b>	LKT Laboratories, Inc 545 Phalen Blvd. St. Paul, MN 55130 USA Ph: 651-644-8424 Fax: 651-644-8357 www.lktlabs.com - getinfo@lktlabs.com
<b>Emergency Phone #</b>	1-800-424-9300

**Section 2. Hazards Identification**

<b>GHS Classification</b>	Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 2), H361 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
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**GHS Label elements including precautionary statements**

Pictogram

Signal word **Warning****Hazard and precautionary statements****Hazard statements**

H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H351 - Suspected of causing cancer.  
H361 - Suspected of damaging fertility or the unborn child.

**Precautionary statements**

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing dust, fumes, gas, mist, vapors, and spray.  
P264 - Wash skin thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, eye protection and face protection.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P332 + P313 - If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 - If eye irritation persists: Get medical advice/ attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/ container to an approved waste disposal plant.

<b>HMIS Classification</b>	Health hazard:	2
	Chronic health hazard:	*
	Flammability:	0
	Physical hazard:	0

<b>NFPA Rating</b>	Health hazard:	2
	Fire hazard:	0
	Reactivity hazard:	0

<b>Potential Health Effects</b>	Inhalation - May be harmful if inhaled. May cause respiratory irritation. Skin - May be harmful if absorbed through skin. Causes skin irritation. Eyes - Causes serious eye irritation. Ingestion - May be harmful if swallowed.
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Carcinogenicity: Suspected of causing cancer. Reproductive toxicity: Suspected of damaging fertility or the unborn child.

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### Section 3. Composition/Information on Ingredients

#### Substances

**Formula** C<sub>9</sub>H<sub>8</sub>O<sub>4</sub>  
**CAS No.** 331-39-5

**Formula Wt.** 180.16  
**EC No.** 206-361-2

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### Section 4. First Aid Measures

#### General advice

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

#### Eye Contact

Rinse eyes thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### Skin Contact

Wash off with soap and plenty of water. Consult a physician.

#### Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### Section 5. Firefighting Measures

#### Flash Point

Not available.

#### Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical powder, and carbon dioxide.

#### Firefighting Procedures

Wear self-contained breathing apparatus for fire fighting and protective clothing if necessary.

#### Unusual Fire Hazards

Carbon oxides.

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### Section 6. Accidental Release Measures

#### Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, dust, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental Precautions

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

#### Methods and materials for containment and cleanup

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### Section 7. Handling and Storage

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### Storage Conditions

Keep container tightly closed in a dry and well-ventilated place.

#### Hazardous Decomposition Products

Not available.

#### Other Remarks

None.

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### Section 8. Exposure Controls/Personal Protection

#### Personal protective equipment EXPOSURE CONTROLS

Contains no substances with occupational exposure limit values. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/face protection:** Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and splash contact - Material: nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min, Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).

**Body protection:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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### Section 9. Physical and Chemical Properties

<b>Physical State</b>	Solid.	<b>Color</b>	Brownish/yellowish crystalline powder.
<b>Boiling Point</b>	Not available.	<b>Volatility</b>	Not available.
<b>Melting Point</b>	212°C-214°C(dec.)	<b>Density</b>	Not available.
<b>Solubility</b>	Sparingly soluble in water. Soluble in DMSO.	<b>pH</b>	Not available.
<b>Flash Point</b>	Not available.	<b>Ignition temperature</b>	Not available.
<b>Lower explosion limit</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Upper explosion limit</b>	Not available.	<b>Vapor pressure</b>	Not available.
<b>Water solubility</b>	Sparingly soluble in water.	<b>Odor</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	log P: 1.15	<b>Odor Threshold</b>	Not available.
<b>Relative vapor density</b>	Not available.	<b>Evaporation rate</b>	Not available.

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### Section 10. Stability and Reactivity

<b>Stability</b>	Stable.
<b>Materials To Avoid</b>	Strong bases and strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Not available.

**Possibility of hazardous reactions** Not available.

**Conditions to avoid** Not available.

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### Section 11. Toxicological Information

**Oral LD50** Not available.

**Skin corrosion/irritation** Not available.

**Inhalation LC50** Not available.

**Serious eye damage/irritation** Not available.

**Dermal LD50** Not available.

**Respiratory or skin sensitization** Not available.

**Other information on acute toxicity** Not available.

**Germ cell mutagenicity** Mouse Lymphocyte Mutation in mammalian somatic cells.

**Reproductive Toxicity** Possible risk of congenital malformation in the fetus. Suspected human reproductive toxicant.

**Aspiration Hazard** Not available.

**Specific organ toxicity single exposure (GHS)** Inhalation - May cause respiratory irritation.

**Synergistic effects** Not available.

**Specific organ toxicity repeated exposure (GHS)** Not available.

**Additional Information** RTECS: GD8950000  
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Teratogenicity** Not available.

**Signs and symptoms of exposure** Stomach - irregularities - Based on Human Evidence.

**Potential Health Effects** Inhalation - May be harmful if inhaled. May cause respiratory irritation. Skin - May be harmful if absorbed through skin. Causes skin irritation. Eyes - Causes serious eye irritation. Ingestion - May be harmful if swallowed. Carcinogenicity: Suspected of causing cancer. Reproductive toxicity: Suspected of damaging fertility or the unborn child.

**Carcinogenicity** Rat - oral  
Tumorigenic: Carcinogenic by RTECS criteria. Gastrointestinal: Tumors, kidney and ureter. Bladder: Kidney tumors. This product is or contains a components that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP or EPA classification. Limited evidence of carcinogenicity in animal studies.  
**IARC:** 2B- Group 2B: Possible carcinogenic to humans (3,4-Dihydroxycinnamic acid).  
**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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### Section 12. Ecological Information

**Toxicity** Not available.

**Mobility in soil** Not available.

**PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/ not

conducted

**Persistence and degradability** Not available.

**Other adverse effects** Not available.

**Bioaccumulative potential** Not available.

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### Section 13. Disposal Considerations

**Waste Disposal** Dispose of material according to all federal, state, and local regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product.

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### Section 14. Transport Information

**DOT (US)** Not dangerous goods.

**IATA** Not dangerous goods.

**IMDG** Not dangerous goods.

#### Further Information

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### Section 15. Regulatory Information

#### Reach No.

**SARA 302 Components** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 Components** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Components** Acute health hazard, chronic health hazard.

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

**Pennsylvania Right To Know Components** Caffeic acid CAS No. 331-9-5 Revision Date: 2009-07-17

**New Jersey Right To Know Components** Caffeic acid CAS No. 331-9-5 Revision Date: 2009-07-17

**California Prop 65 Components** WARNING! This product contains a chemical known to the State of California to cause cancer. Caffeic acid CAS No. 331-9-5 Revision Date: 2007-09-28

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### Section 16. Other Information

**Other information** The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

**Updated** 11/13/2018

For emergencies in the USA, call  
CHEMTREC 800-424-9300