

## 4-Hydroxycinnamic acid

Cat#: orb104737 (MSDS)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Trade name**

4-Hydroxycinnamic acid

**CAS number**

501-98-4

**EC number**

610-511-6

**Synonyms**

p-Coumaric acid

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses**

Research and development.

**Not suitable for use in**

Not suitable for human consumption or veterinary purposes.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

**Classification**

Acute toxicity, oral, hazard category 5

Skin irritation, hazard category 2

Eye irritation, hazard category 2

Specific Target Organ Toxicity — Single exposure, hazard category 3

**Hazard statements**

H303, H315, H319, H335, H336

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

**Hazard pictograms****Signal word**

Warning

### Hazard statements

- H303 May be harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

### Precautionary statements

- P261 Avoid breathing dust.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302 + P352 IF ON SKIN: Wash with plenty of water/.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
trans-4-Hydroxycinnamic acid	501-98-4 610-511-6 - -	100%	Acute Tox. 5 - oral, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	H303, H315, H319, H335 - -	-

### Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

- Move to fresh air if inhaled.
- Get medical attention if any discomfort continues.

#### Skin contact

- Rinse skin with water.

If skin irritation or rash occurs: Get medical advice/attention.

**Eye contact**

Remove contact lenses if present. Rinse eyes with water.

If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse mouth.

Get medical advice/attention if you feel unwell.

**Information for doctors**

No data available.

**4.2. Most important symptoms and effects, both acute and delayed**

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

**Inhalation**

May cause respiratory irritation.

**Skin contact**

Prolonged contact may cause dryness of the skin.

**Eye contact**

May be slightly irritating to the eyes.

**Ingestion**

May cause discomfort if swallowed.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. No special treatment requirement.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

**Unsuitable extinguishing media**

No specific fire fighting procedure given.

**5.2. Special hazards arising from the substance or mixture**

Specific hazards: Combustible.

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

No specific recommendations. For personal protection, see section 8.

### **6.2. Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

### **6.4. Reference to other sections**

For personal protection, see section 8. For waste disposal, see section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Preventive handling precautions**

For precautions see section 2.2.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store at room temperature. Store in a dry place. Store in a closed container.

### **7.3. Specific end use(s)**

No specific usage precautions noted.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Exposure limits**

No occupational exposure limit assigned.

### **8.2. Exposure controls**

#### **Eye / face protection**

Wear eye protection.

#### **Hand protection**

Wear protective gloves. No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Wash contaminated skin thoroughly after handling.

#### **Other skin protection**

Wash skin thoroughly after handling.

**Respiratory protection**

Provide adequate ventilation.

**Environmental exposure controls**

Avoid discharge into drains.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Physical state**

Solid

**Colour**

Beige.

**Odour**

Odourless.

**Melting point / freezing point**

214 - 217°C

**Boiling point or initial boiling point and boiling range**

No data available

**Flammability**

No data available

**Lower and upper explosion limit**

No data available

**Flash point**

No data available

**Auto-ignition temperature**

No data available

**Decomposition temperature**

No data available

**pH**

No data available

**Kinematic viscosity**

No data available

**Solubility**

No data available

**Partition coefficient n-octanol/water**

No data available

**Vapour pressure**

No data available

**Density and/or relative density**

No data available

**Relative vapour density**

No data available

**Particle characteristics**

No data available

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

The following applies in general to flammable organic substances and mixtures: when finely distributed, the risk of a dust explosion may be assumed.

**10.2. Chemical stability**

Stable under normal temperature conditions. Stable under the prescribed storage conditions.

**10.3. Possibility of hazardous reactions**

There are no known conditions that are likely to result in a hazardous situation.

**10.4. Conditions to avoid**

There are no known conditions that are likely to result in a hazardous situation.

**10.5. Incompatible materials**

Strong oxidising agents.

**10.6. Hazardous decomposition products**

See section 5.

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Test animals
trans-4-Hydroxycinnamic acid 501-98-4 / 610-511-6	Acute Toxicity (Oral LD50):	2850mg/kg	Mouse

**Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**

No data available

**SECTION 12: Ecological information**

**12.1. Toxicity**

No data available

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Endocrine disrupting properties**

No data available

**12.7. Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal considerations**

Dispose of contents/container in accordance with local regulations.



## SECTION 14: Transport information

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

#### National regulations

No data available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

### Phrase meaning

Acute Tox. 5 - oral - Acute toxicity, oral, hazard category 5

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3

H303 May be harmful if swallowed.

H315 Causes skin irritation.





Explore. Bioreagents.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

[www.biorbyt.com](http://www.biorbyt.com)