

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 2-Hydroxycinnamic acid, predominantly *trans*
 Product Number : H22809
 Brand : Aldrich
 Company : Sigma-Aldrich Canada, Ltd
 2149 Winston Park Drive
 OAKVILLE ON L6H 6J8
 CANADA
 Telephone : +1 9058299500
 Fax : +1 9058299292
 Emergency Phone # : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C9H8O3
 Molecular Weight : 164.16 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
trans-2-Hydroxycinnamic acid			
614-60-8	210-386-4	-	-

3. HAZARDS IDENTIFICATION**WHMS Classification**

D1B Toxic Material Causing Immediate and Serious Toxic Effects
 D2B Serious Toxic Effects
 Toxic by ingestion
 Moderate skin irritant
 Moderate respiratory irritant
 Moderate eye irritant

HMS Classification

Health Hazard: 2
 Flammability: 0
 Physical hazards: 0

Potential Health Effects

Inhalation : May be harmful if inhaled. Causes respiratory tract irritation.
Skin : May be harmful if absorbed through skin. Causes skin irritation.
Eyes : Causes eye irritation.
Ingestion : Toxic if swallowed.

4. FIRST AID MEASURES**General advice**

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

Aldrich - H22809

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 1 of 9

If inhaled

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

In case of skin contact

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

In case of eye contact

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

If swallowed

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

5. FIRE-FIGHTING MEASURES**Flammable properties**

Flash point : no data available
 Ignition temperature : no data available

Suitable extinguishing media

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

Special protective equipment for fire-fighters

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

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

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

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. Normal measures for preventive fire protection.

Storage

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

Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Aldrich - H22809

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 2 of 9

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form : powder
 Colour : beige

Safety data

pH : no data available
 Melting point : 217 °C (423 °F)
 Boiling point : no data available

Flash point : no data available
 Ignition temperature : no data available
 Lower explosion limit : no data available
 Upper explosion limit : no data available

Water solubility : no data available
 Partition coefficient: log Pow: 1.562
 n-octanol/water

10. STABILITY AND REACTIVITY**Storage stability**

Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD50 Intravenous - mouse - 180 mg/kg

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Potential Health Effects

Inhalation : May be harmful if inhaled. Causes respiratory tract irritation.
Skin : May be harmful if absorbed through skin. Causes skin irritation.
Eyes : Causes eye irritation.

Aldrich - H22809

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 3 of 9

Ingestion : Toxic if swallowed.

Additional Information

RTECS: GD9090000

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS**Product**

Observe all federal, state, and local environmental 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.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

UN-Number: 2811 Class: 6.1 Packing group: III
 Proper shipping name: Toxic solids, organic, n.o.s. (trans-2-Hydroxycinnamic acid)
 Marine pollutant: No
 Poison Inhalation Hazard: No

IMDG

UN-Number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
 Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (trans-2-Hydroxycinnamic acid)
 Marine pollutant: No

IATA

UN-Number: 2811 Class: 6.1 Packing group: III
 Proper shipping name: Toxic solid, organic n.o.s. (trans-2-Hydroxycinnamic acid)

15. REGULATORY INFORMATION**DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

trans-2-Hydroxycinnamic acid CAS-No. 614-60-8

WHMS Classification

D1B Toxic Material Causing Immediate and Serious Toxic Effects
 D2B Serious Toxic Effects
 Toxic by ingestion
 Moderate skin irritant
 Moderate respiratory irritant
 Moderate eye irritant

16. OTHER INFORMATION

Aldrich - H22809

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 4 of 9

Further information

Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Aldrich - H22809

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 5 of 9