

trans-Cinnamaldehyde
MSDS# 96752

Section 1 - Chemical Product and Company Identification

MSDS Name:
trans-Cinnamaldehyde
Catalog Numbers:
11035-0000, 11035-0010, 11035-0500, 11035-5000, 21978-0000, 21978-0500,
C/6098/08
Synonyms:
(E)-Cinnamaldehyde; 3-Phenyl-2-propenal; 3-Phenylacrolein;
3-Phenylpropenal; Cinnamyl aldehyde; Cinnamic aldehyde.
Company Identification: Fisher Scientific UK
Bishop Meadow Road, Loughborough
Leics. LE11 5RG
For information in Europe, call:(01509) 231166
Emergency Number, Europe:01509 231166

Section 2 - Composition, Information on Ingredients

CAS#: 14371-10-9
Chemical Name: trans-Cinnamaldehyde
%: 99
EINECS#: unlisted
Hazard Symbols:
Risk Phrases:

Text for R-phrases: see Section 16
Hazard Symbols:
XN
Risk Phrases:
21 36/37/38

Section 3 - Hazards Identification
EMERGENCY OVERVIEW

Harmful in contact with skin. Irritating to eyes, respiratory system
and skin.
Potential Health Effects
Eye:
Causes eye irritation.
Skin:
Causes skin irritation. May cause skin sensitization, an allergic
reaction, which becomes evident upon re-exposure to this material.
Ingestion:
Causes gastrointestinal irritation with nausea, vomiting and
diarrhea. Low hazard for usual industrial handling.
Inhalation:
Causes respiratory tract irritation.
Chronic:
No information found.

Section 4 - First Aid Measures

Eyes:
In case of contact, immediately flush eyes with plenty of water for
at least 15 minutes. Get medical aid.
Skin:
In case of contact, immediately flush skin with soap and plenty of
water. Remove contaminated clothing and shoes. Get medical aid if
symptoms occur. Wash clothing before reuse.
Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 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.

Combustible

liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Keep refrigerated. (Store below 4°C/39°F.)

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 104-55-2:

CAS# 14371-10-9:

Personal Protective Equipment

Eyes:

Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Oil
Color: clear yellow
Odor: cinnamon odor
pH: Not available
Vapor Pressure: 0.0289 mm Hg @ 25 deg C
Viscosity: Not available
Boiling Point: 246 deg C (474.80°F)
Freezing/Melting Point: -7.5 deg C (18.50°F)
Autoignition Temperature: Not applicable
Flash Point: 71 deg C (159.80 deg F)
Explosion Limits: Lower:Not available
Explosion Limits: Upper:Not available
Decomposition Temperature: Not available
Solubility in water: 1.42 g/l @ 25°C
Specific Gravity/Density: 1.05
Molecular Formula: C9H8O
Molecular Weight: 132.16

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures. Thickens on exposure to air.

Conditions to Avoid:

Excess heat, prolonged exposure to air, excess light.

Incompatibilities with Other Materials

Strong oxidizing agents, strong bases.

Hazardous Decomposition Products

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization

May occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 104-55-2: GD6475000

CAS# 14371-10-9: GD6476000

LD50/LC50:

RTECS: CAS# 104-55-2: Oral, mouse: LD50 = 2225 mg/kg;

Oral, rat: LD50 = 2220 mg/kg;.

RTECS: CAS# 14371-10-9: Oral, rat: LD50 = 3350

mg/kg;.

Other: Acute dermal LD50 rabbit: > 2000 mg/kg (No mortality was found at the dose of 2000 mg/kg.) DSM Special Products.

Carcinogenicity:

Cinnamaldehyde -

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

trans-Cinnamaldehyde -

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

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:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 21 Harmful in contact with skin.

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

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 104-55-2:

CAS# 14371-10-9: Not available

Canada

CAS# 104-55-2 is listed on Canada's DSL List

US Federal

TSCA

CAS# 104-55-2 is listed on the TSCA Inventory.

CAS# 14371-10-9 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Other Information

Text for R-phrases from Section 2

MSDS Creation Date:

10/02/1998

Revision #5 Date

5/16/2007

Revisions were made in Sections:

2, 3, 14, 15

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