

**** MATERIAL SAFETY DATA SHEET ****

trans-Cinnamic acid, 98+% (litr.)

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: trans-Cinnamic acid, 98+% (litr.)
Catalog Numbers: 15857-0000, 15857-0050, 15857-1000, 15857-5000, 15.857.46
Synonyms:
Company Identification: Acros Organics N.V.

One Reagent Lane
Fair Lawn, NJ 07410
For information in North America call: 800-ACROS-01
For emergencies in the US call CHEMTREC: 800-424-9300
For emergencies in the US, call CHEMTREC: 800-424-9300

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
140-10-3	trans-Cinnamic acid, 98+% (litr.)		205-398-1

Hazard Symbols: Xi

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW
Appearance: white crystalline powder.

Target Organs: None.

Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: DO NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cups of water, and seek medical advice.
Inhalation: Remove from exposure to fresh air immediately.
Notes to Physician: Treat symptomatically and supportively.

**** 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.
Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.
Autoignition Temperature: Not available.
Flash Point: 100 deg C (212.00 deg F)
NFPA Rating: Not published.
Explosion Limits, Lower: Not available.
Upper: Not available.

**** SECTION 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.

**** SECTION 7 - HANDLING AND STORAGE ****

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
Storage:

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

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits			
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
trans-Cinnamic acid none listed	none listed	none listed	none listed
98+% (litr.)			

OSHA Vacated PELs:

trans-Cinnamic acid, 98+% (litr.):
No OSHA Vacated PELs are listed for this chemical.

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-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Not available.
Appearance: None reported.
Odor: Not available.
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 300 deg C / 760.00mm Hg
Freezing/Melting Point: 131 deg C
Flash Point: Not available.
Solubility: Insoluble in water, soluble in carbon disulfide.
Specific Gravity/Density: 1.009/cm3
Molecular Formula: C9H8O2
Molecular Weight: 148.16

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, strong oxidants.
Incompatibilities with Other Materials:
Strong oxidizing agents.
Hazardous Decomposition Products:
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
CAS# 140-10-3: GD7850000
LD50/LC50:
Not available.
Carcinogenicity:
trans-Cinnamic acid, 98+% (litr.) -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:
Not available.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: Not listed.
RCRA D-Series Chronic Toxicity Reference Levels: Not listed.

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RCRA F-Series: Not listed.
 RCRA P-Series: Not listed.
 RCRA U-Series: Not listed.
 Not listed as a material banned from land disposal according to RCRA.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT
 No information available
 IMO
 Not regulated as a hazardous material.
 IATA
 Not regulated as a hazardous material.
 RID/ADR
 Not regulated as a hazardous material.
 Canadian TDG
 No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

FEDERAL
 TSCA
 CAS# 140-10-3 is listed on the TSCA inventory.
 Health & Safety Reporting List
 None of the chemicals are on the Health & Safety Reporting List.
 Chemical Test Rules
 None of the chemicals in this product are under a Chemical Test Rule.
 Section 12b
 None of the chemicals are listed under TSCA Section 12b.
 TSCA Significant New Use Rule
 None of the chemicals in this material have a SNUR under TSCA.
 SARA
 Section 302 (RQ)
 None of the chemicals in this material have an RQ.
 Section 302 (TPQ)
 None of the chemicals in this product have a TPQ.
 Section 313
 No chemicals are reportable under Section 313.
 Clean Air Act:
 This material does not contain any hazardous air pollutants.
 This material does not contain any Class 1 Ozone depleters.
 This material does not contain any Class 2 Ozone depleters.
 Clean Water Act:
 None of the chemicals in this product are listed as Hazardous Substances under the CWA.
 None of the chemicals in this product are listed as Priority Pollutants under the CWA.
 None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
 OSHA:
 None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
 Not present on state lists from CA, PA, MN, MA, FL, or NJ.
 California No Significant Risk Level:
 None of the chemicals in this product are listed.

INTERNATIONAL
 European Labeling in Accordance with EC Directives
 Hazard Symbols: X
 Risk Phrases:
 Safety Phrases:
 S 36/37/39 In case of contact with eyes, rinse immediately with plenty of water, and seek medical advice.
 S 37/39 Wear suitable gloves and eye/face protection.

Canada
 CAS# 140-10-3 is listed on Canada's DSL/NDSL List.
 CAS# 140-10-3 is not listed on Canada's Ingredient Disclosure List.
 Exposure Limits:

**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:
 No additional information available.
 MSDS Creation Date: 3/01/1991 Revision #1 Date: 3/04/1996
 The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability, and no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the identity of the information for their particular purposes in no way shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.