

SAFETY DATA SHEET

Revision Date 10-Feb-2015

Revision Number 1

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

	1. Identification			
Product Name	trans-Cinnamaldehyde			
Cat No. :	AC110350000; AC110350010; AC110350050; AC110350500; AC110355000			
Synonyms	3-Phenyl-2-propenal			
Recommended Use	Laboratory chemicals.			
Uses advised against No Information available Details of the supplier of the safety data sheet				
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99		

2. Hazard(s) identification

Category 4 Category 4 Category 2 Category 2 Category 1 Category 3

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids
Acute dermal toxicity
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Skin Sensitization
Specific target organ toxicity (single exposure)
Target Organs - Respiratory system.

Label Elements

Signal Word

Warning

Hazard Statements

Combustible liquid Harmful in contact with skin Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause respiratory irritation



Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep cool

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Take off contaminated clothing and wash before reuse

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

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
trans-Cinnamaldehyde	14371-10-9	99

	4. First-aid measures
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Ingestion	Clean mouth with water. Get medical attention.
Most important symptoms/effects	Breathing difficulties. May cause allergic skin reaction. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may

Notes to Physician	include rash, itching, swell lightheadedness, chest pa Treat symptomatically	ing, trouble breathing, tingling of in, muscle pain or flushing	the hands and feet, dizziness,
	5. Fire-fightii		
Suitable Extinguishing Media	Water spray. Carbon dioxi	de (CO2). Dry chemical. alcohol	-resistant foam.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	71 °C / 159.8 °F No information available		
Autoignition Temperature Explosion Limits Upper Lower	No information available No data available No data available		
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available		
Specific Hazards Arising from the C Combustible material. Flammable.	chemical		
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters	lemand, MSHA/NIOSH (approve	ed or equivalent) and full
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A
	 Accidental re 	lease measures	
		n. Use personal protective equi	oment.
Environmental Precautions Methods for Containment and Clear	Ensure adequate ventilation See Section 12 for addition Soak up with inert absorbe	n. Use personal protective equip nal ecological information.	
Environmental Precautions Methods for Containment and Clear	Ensure adequate ventilation See Section 12 for addition Soak up with inert absorbe sawdust). Keep in suitable 7. Handling	on. Use personal protective equip nal ecological information. ent material (e.g. sand, silica gel , closed containers for disposal. and storage	acid binder, universal binder,
Environmental Precautions Methods for Containment and Clear Up	Ensure adequate ventilation See Section 12 for addition Soak up with inert absorbe sawdust). Keep in suitable 7. Handling	on. Use personal protective equipal ecological information. ent material (e.g. sand, silica gel, , closed containers for disposal. and storage d eyes. Do not breathe dust. Do	acid binder, universal binder,
Environmental Precautions Methods for Containment and Clear Up Handling	Ensure adequate ventilation See Section 12 for addition Soak up with inert absorber sawdust). Keep in suitable 7. Handling Avoid contact with skin an Avoid contact with clothing	on. Use personal protective equipal ecological information. ent material (e.g. sand, silica gel, , closed containers for disposal. and storage d eyes. Do not breathe dust. Do container tightly closed. Keep a	acid binder, universal binder, not breathe vapors or spray mis
Environmental Precautions Methods for Containment and Clear Up Handling Storage	Ensure adequate ventilation See Section 12 for addition Soak up with inert absorber sawdust). Keep in suitable 7. Handling Avoid contact with skin an Avoid contact with skin an Avoid contact with clothing Keep in a dry place. Keep ignition. Keep refrigerated	on. Use personal protective equipal ecological information. ent material (e.g. sand, silica gel, , closed containers for disposal. and storage d eyes. Do not breathe dust. Do container tightly closed. Keep a	acid binder, universal binder, not breathe vapors or spray mis way from heat and sources of
Environmental Precautions Methods for Containment and Clear Up Handling Storage 8. E>	Ensure adequate ventilation See Section 12 for addition Soak up with inert absorbet sawdust). Keep in suitable 7. Handling Avoid contact with skin an Avoid contact with clothing Keep in a dry place. Keep ignition. Keep refrigerated.	n. Use personal protective equipal ecological information. ent material (e.g. sand, silica gel, , closed containers for disposal. and storage d eyes. Do not breathe dust. Do container tightly closed. Keep an / personal protectic cain any hazardous materials wit	acid binder, universal binder, not breathe vapors or spray mis way from heat and sources of
Personal Precautions Environmental Precautions Methods for Containment and Clear Up Handling Storage 8. E> Exposure Guidelines Engineering Measures	Ensure adequate ventilation See Section 12 for addition Soak up with inert absorbers sawdust). Keep in suitable 7. Handling Avoid contact with skin an Avoid contact with clothing Keep in a dry place. Keep ignition. Keep refrigerated COSURE CONTROLS This product does not com established by the region stablished by the re	n. Use personal protective equipal ecological information. ent material (e.g. sand, silica gel, , closed containers for disposal. and storage d eyes. Do not breathe dust. Do container tightly closed. Keep an / personal protectic cain any hazardous materials wit	acid binder, universal binder, not breathe vapors or spray mis way from heat and sources of n h occupational exposure limits
Environmental Precautions Methods for Containment and Clear Up Handling Storage <u>8. Exposure Guidelines</u>	Ensure adequate ventilation See Section 12 for addition Soak up with inert absorbers sawdust). Keep in suitable 7. Handling Avoid contact with skin an Avoid contact with clothing Keep in a dry place. Keep ignition. Keep refrigerated COSURE CONTROLS This product does not com established by the region stablished by the re	n. Use personal protective equipal ecological information. ent material (e.g. sand, silica gel, , closed containers for disposal. and storage d eyes. Do not breathe dust. Do container tightly closed. Keep ar / personal protectic rain any hazardous materials wit specific regulatory bodies.	acid binder, universal binder, not breathe vapors or spray mist way from heat and sources of n h occupational exposure limits

	OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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9.	Physical	and	chemica	I properties

Liquid Yellow sweet

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Physical State	
Appearance	
Odor	
Odor Threshold	
рН	
Melting Point/Range	
Boiling Point/Range	
Flash Point	
Evaporation Rate	
Flammability (solid,gas)	
Flammability or explosive limits	
Upper	
Lower	
Vapor Pressure	
Vapor Density	
Relative Density	
Solubility	
Partition coefficient; n-octanol/water	
Autoignition Temperature	
Decomposition Temperature	
Viscosity	
Molecular Formula	
Molecular Weight	

No information available -7.5 °C / 18.5 °F 250 - 252 °C / 482 - 485.6 °F 71 °C / 159.8 °F No information available No information available No data available No data available <0.1 mbar @ 25 °C 4.6 (Air = 1.0) 1.050 No information available No data available No information available No information available No information available C9 H8 O 132.16

No information available

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions. Air sensitive.		
Conditions to Avoid	Exposure to air. Incompatible products.		
Incompatible Materials	Acids, Strong bases		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Products

Product Information

No acute toxicity information is available for this product **Component Information Toxicologically Synergistic** No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Sensitization		May cause sensitization by skin contact				
Irritation		No information available				

Component	CAS-NO	IARC	NIP	ACGIH	OSHA	IVIEXICO
trans-Cinnamaldehyde	14371-10-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	S	No information available.				
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	,both acute and	nd Symptoms of overexposure may be headache, dizziness, tiredness, nausea and verexposure may include rash, itching, swelling, trouble breathing of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flush			breathing, tingling	
Endocrine Disruptor Information		No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated. See actual entry in RTE complete information.			ntry in RTECS for	

12. Ecological information

Ecotoxicity Do not empty into drains.

Persistence and Degradability Bioaccumulation/ Accumulation	No information available No information available.
Mobility	No information available.

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information			
DOT	Not regulated		
DOT TDG IATA	Not regulated		
IATA	Not regulated		
IMDG/IMO	Not regulated		
15. Regulatory information			

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
trans-Cinnamaldehyde	-	-	-	-	-		-	Х	-	Х	-
Legend:											

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable					
SARA 313	Not applicable					
SARA 311/312 Hazardous Categor Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure H Reactive Hazard	azard	Yes No Yes No No				
Clean Water Act	Not applicable					
Clean Air Act	Not applicable					
OSHA Occupational Safety and Hea Not applicable	Ith Administration					
CERCLA Not applicable						
California Proposition 65	This product does not contain any Proposition 65 chemicals					
State Right-to-Know	Not applicable					
U.S. Department of Transportation	I					
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N					
U.S. Department of Homeland Sec This product does not contain any D	urity HS chemicals.					
Other International Regulations						
Mexico - Grade	No information available					
Canada This product has been classified in the MSDS contains all the informa		rd criteria of the Controlled Products Regulations (CPR) and				
WHMIS Hazard Class	B3 Combustible liquid					

WHMIS Hazard Class

- B3 Combustible liquid D1B Toxic materials
- D2B Toxic materials



16. Other information

Prepared By

Revision Date Print Date Revision Summary Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

10-Feb-2015 10-Feb-2015 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS