

# trans-4-(Trifluoromethyl)cinnamic acid Safety Data Sheet 2921354 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/02/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: trans-4-(Trifluoromethyl)cinnamic acid
CAS No	: 16642-92-5
Product code	: 2921-3-54
Formula	: C10H7F3O2
Synonyms	: PTF-CNA; (E)-4-(Trifluoromethyl)cinnamic acid
Other means of identification	: MFCD00002696
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the same	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	<u>bs.com</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
STOT SE 3 H335 - May cause respirate	e irritation ory irritation
Full text of H-phrases: see section 16	
Full text of H-phrases: see section 16   2.2. Label elements	
Full text of H-phrases: see section 16   2.2. Label elements   GHS-US labeling	
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	ory irritation : GHS07 : Warning : H315 - Causes skin irritation
Full text of H-phrases: see section 16	ory irritation : GHS07 : Warning
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	ory irritation : : GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

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2.3. Other hazards						
No additional information available 2.4. Unknown acute toxicity (GHS US)						
Not applicable						
SECTION 3: Composition/information	on ingre	dients				
3.1. Substance						
Substance type :	Mono-cor	stituent				
Name	Pr	oduct identifier	%	Classification (GHS-US)		
trans-4-(Trifluoromethyl)cinnamic acid (Main constituent)	(C	AS No) 16642-92-5	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335		
Full text of H-phrases: see section 16		1	I			
3.2. Mixture						
Not applicable						
SECTION 4: First aid measures						
4.1. Description of first aid measures						
First-aid measures general :		<sup>t</sup> accident or if you feel unwell, seek r ssible). Move the affected personnel				
First-aid measures after inhalation :		person to fresh air and keep comfortan. Get medical advice/attention.	able for breathing	g. If not breathing, give artificial		
		n plenty of soap and water. Get medi				
First-aid measures after eye contact :	present a	ely flush eyes thoroughly with water f nd easy to do. Continue rinsing. Get	medical advice/a	attention.		
First-aid measures after ingestion :		nduce vomiting. Never give anything t with water. Get medical advice/atter		unconscious person. Rinse		
4.2. Most important symptoms and effects	, both acu	te and delayed				
Symptoms/injuries :		important known symptoms and effe or in section 11.	cts are describe	d in the labelling (see section		
4.3. Indication of any immediate medical at	ttention ar	d special treatment needed				
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
Suitable extinguishing media :		esistant foam. Carbon dioxide. Dry po te for surrounding fire.	owder. Water spr	ray. Use extinguishing media		
5.2. Special hazards arising from the subst	tance or m	ixture				
Fire hazard :	Thermal of	decomposition generates: Carbon oxi	des. Hydrogen f	luoride.		
5.3. Advice for firefighters						
Protection during firefighting :		empt to take action without suitable pection 8: "Exposure controls/personal		ment. For further information		
<b>SECTION 6: Accidental release measu</b>	ires					
6.1. Personal precautions, protective equip	pment and	emergency procedures				
General measures :	Evacuate breathe d	unnecessary personnel. Ensure ade ust.	quate air ventila	tion. Avoid raising dust. Do not		
6.1.1. For non-emergency personnel						
	Only qual	ified personnel equipped with suitable	e protective equi	ipment may intervene.		
6.1.2. For emergency responders						
Protective equipment :		empt to take action without suitable pection 8: "Exposure controls/personal		ment. For further information		
6.2. Environmental precautions						
Avoid release to the environment. Notify authorities	s if product	enters sewers or public waters.				
6.3. Methods and material for containment	and clean	ing up				
Methods for cleaning up :	Sweep or	shovel spills into appropriate contair	ner for disposal.	Minimize generation of dust.		
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Other in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addi	tional information available	
SECT	ION 7: Handling and storag	e
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Ensure good ventilation of the work station. Do not breathe dust. Avoid raising dust. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene	e measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, inc	luding any incompatibilities
Storage	conditions	: Keep container tightly closed.
Incompa	atible materials	: Refer to Section 10 on Incompatible Materials.
Storage	area	: Store in dry, cool, well-ventilated area.

#### **Control parameters** 8.1.

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves.
Eye protection	: Chemical goggles or safety glasses. Face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.

#### **SECTION 9: Physical and chemical properties**

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Viscosity, dynamic	: No data available		
Viscosity, kinematic	: No data available		
Viscosity	: No data available		
Decomposition temperature	: No data available		
Auto-ignition temperature	: No data available		
Log Pow	: No data available		
Solubility	: No data available		
Molecular mass	: 216.16 g/mol		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Vapor pressure	: No data available		
Oxidizing properties	: No data available		
Explosive properties	: No data available		
Explosion limits	: No data available		
Flammability (solid, gas)	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flash point	: > 110 °C		
Boiling point	: No data available		
Freezing point	: No data available		
Melting point	: 230 - 231 °C		
рН	: No data available		
Odor threshold	: No data available		
Odor	: No data available		
Color	: No data available		
Physical state	: Solid		

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9.2.	Other information
	itional information available
SECI	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
No add	itional information available
10.5.	Incompatible materials
Strong	bases. Strong oxidizing agents.
10.6.	Hazardous decomposition products
Under	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

fire, see Section 5.
SECTION 11: Toxicological information

#### Information on toxicological effects 11.1.

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION	SECTION 12: Ecological information				
12.1.	Toxicity				
No additi	onal information available				
12.2.	Persistence and degradability				
No additi	onal information available				
12.3.	Bioaccumulative potential				
No additi	onal information available				
12.4.	Mobility in soil				
No additi	No additional information available				
12.5.	Other adverse effects				
No additi	onal information available				

SECTION 13: Disposal considerations				
13.1.	Waste treatment methods			
Waste tre	atment methods	:	Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations		:	Dispose of contents/container in accordance with licensed collector's sorting instructions.	

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#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

trans-4-(Trifluoromethyl)cinnamic acid

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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#### **15.2. International regulations**

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

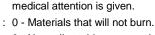
### **SECTION 16: Other information**

#### Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

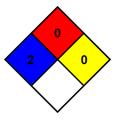
NFPA health hazard

NFPA fire hazard	
NFPA reactivity	



: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt



100%

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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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 offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.