

**SECTION 1: Identification** 

## 1,3,5-Tris[(3,3,3trifluoropropyl)methyl]cyclotrisiloxane Safety Data Sheet 6H85335

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/05/2016 Version: 1.0

			1
1.1. Identification			
Product form	: Substance		
Substance name	: 1,3,5-Tris[(3,3,3-trifluoropro	pyl)methyl]cyclotrisiloxane	
CAS No	: 2374-14-3		
Product code	: 6H85-3-35		
Formula	: C12H21F9O3Si3		
Synonyms	: (3,3,3-Trifluoropropyl)meth	Icyclotrisiloxane; F3	
Other means of identification	: MFCD00054667		
1.2. Relevant identified uses of the subst	ance or mixture and uses a	vised against	
Use of the substance/mixture	: Laboratory chemicals	viseu ayamst	
	Manufacture of substances Scientific research and dev	elopment	
1.3. Details of the supplier of the safety d	ata sheet		
SynQuest Laboratories, Inc.			
P.O. Box 309			
Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097			
info@synquestlabs.com - www.synquestlabs.com	1		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mi	xture		
Classification (GHS-US)			
Acute Tox. 3 (Oral) H301 - Toxic if swallowed			
Skin Irrit. 2 H315 - Causes skin irritatio			
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirat			
, ,	ory initation		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS06 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H301 - Toxic if swallowed		
	H315 - Causes skin irritatio		
	H319 - Causes serious eye H335 - May cause respirate		
Precautionary statements (GHS-US)	, ,	, fumes, mist, spray, vapors	
recautionary statements (Crio-00)	P264 - Wash skin thorough		
	P270 - Do not eat, drink or P271 - Use only outdoors of P280 - Wear protective glo P301+P310 - If swallowed: P302+P352 - If on skin: Wa P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy P312 - Call a POISON CEI	moke when using this product r in a well-ventilated area es/protective clothing/eye protection/face protection mmediately call a poison center/doctor/ sh with plenty of soap and water nove person to fresh air and keep comfortable for br es: Rinse cautiously with water for several minutes. F	reathing
12/08/2016	EN (English US)	SDS ID: 6H85335	Page 1

# **1,3,5-Tris[(3,3,3-trifluoropropyl)methyl]cyclotrisiloxane** Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	P332 P337 P362 P403 P405	<ul> <li>Rinse mouth</li> <li>+P313 - If skin irritation occurs: Get med</li> <li>+P313 - If eye irritation persists: Get med</li> <li>+P364 - Take off contaminated clothing a</li> <li>+P233 - Store in a well-ventilated place.</li> <li>- Store locked up</li> <li>- Dispose of contents/container to an ap</li> </ul>	dical advice/atte and wash it befo Keep container	ntion ore reuse tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)	)			
Not applicable				
SECTION 3: Composition/informat	ion on in	aredients		
3.1. Substance		greatents		
Substance type	· Mono	-constituent		
	. Моло		0/	
Name	200	Product identifier	<b>%</b> <= 100	Classification (GHS-US)
1,3,5-Tris[(3,3,3-trifluoropropyl)methyl]cyclotrisiloxa (Main constituent)	ane	(CAS No) 2374-14-3	<= 100	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.			
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.			
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.			
First-aid measures after eye contact	prese	diately flush eyes thoroughly with water and easy to do. Continue rinsing. Get	immediate med	lical advice/attention.
First-aid measures after ingestion		OT induce vomiting. Never give anything nout with water. Get immediate medical		
4.2. Most important symptoms and ef	,			
Symptoms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describ	ed in the labelling (see section
4.3. Indication of any immediate medi	cal attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures	;			
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the	substance of	or mixture		
Fire hazard		nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Silicon oxides.
5.3. Advice for firefighters				
Firefighting instructions	: In cas	se of fire: Evacuate area.		
Protection during firefighting	: Wear	gas tight chemically protective clothing i ratus. For further information refer to sec		
SECTION 6: Accidental release me				
6.1. Personal precautions, protective				
General measures		uate unnecessary personnel. Ensure ade he gas, fumes, vapor or spray.	equate air ventila	ation. Do not breathe dust. Do not
6.1.1. For non-emergency personnel				
	· Only	qualified personnel equipped with suitab	la protectiva equ	lipment may intervene
Emergency procedures	. Only			

## 1,3,5-Tris[(3,3,3-trifluoropropyl)methyl]cyclotrisiloxane Safety Data Sheet

6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify author	rities if product enters sewers or public waters.
6.3. Methods and material for containn	nent and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good
	ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene 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, includ	ling any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
8.1. Control parameters 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. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory
Other information	Protection. : Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and chemical	properties
-	
9.1. Information on basic physical and	
9.1. Information on basic physical and Physical state	chemical properties : Solid
9.1. Information on basic physical and Physical state Appearance	chemical properties
9.1. Information on basic physical and Physical state Appearance Color	chemical properties : Solid : Low melting solid.
9.1. Information on basic physical and Physical state Appearance Color Odor	chemical properties         : Solid         : Low melting solid.         : No data available
9.1. Information on basic physical and Physical state Appearance Color Odor Odor threshold	chemical properties         : Solid         : Low melting solid.         : No data available         : No data available         : No data available         : No data available
9.1. Information on basic physical and Physical state Appearance Color Odor Odor threshold pH	chemical properties         : Solid         : Low melting solid.         : No data available
9.1. Information on basic physical and Physical state Appearance Color Odor Odor threshold pH Melting point	chemical properties         : Solid         : Low melting solid.         : No data available         : 34 - 36 °C
9.1.         Information on basic physical and           Physical state         Appearance           Color         Odor           Odor threshold         pH           Melting point         Freezing point	chemical properties         : Solid         : Low melting solid.         : No data available         : No data available
9.1. Information on basic physical and Physical state Appearance Color Odor Odor threshold pH Melting point Freezing point Boiling point	chemical properties         : Solid         : Low melting solid.         : No data available         : 34 - 36 °C         : No data available         : 135 °C (@ 22 mm Hg)
9.1.         Information on basic physical and           Physical state         Appearance           Color         Odor           Odor threshold         pH           Melting point         Freezing point	chemical properties         : Solid         : Low melting solid.         : No data available         : No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.24 g/ml (@ 25 °C)
Molecular mass	: 468.54 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

Refractive index

: 1.371 (@ 20 °C)

SECT	ION 10: Stability and reactivity
10.1.	Reactivity

#### No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Keep away from heat, sparks and flame.

#### 10.5. Incompatible materials

Acids. Alcohols. 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**

#### **11.1.** Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed.

1,3,5-Tris[(3,3,3-trifluoropropyl)methyl]cyclotrisiloxane (2374-14-3)		
LD50 oral rat	180 mg/kg	
ATE US (oral)	180.000 mg/kg body weight	
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	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	itional information available
12.4.	Mobility in soil
No addi	itional information available
12.5.	Other adverse effects
No add	itional information available

SECTION 13: Disposal considera	itions
13.1. Waste treatment methods	
Waste treatment 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.
Additional information	: Recycle the material as far as possible.

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

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

In accordance with DOT Transport document description

#### UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

- : UN2811 Toxic solids, organic, n.o.s., 6.1, III
- : UN2811
- : Toxic solids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name
- IB8 Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).
  IP3 Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.
  - T1 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153 DOT Quantity Limitations Passenger aircraft/rail : 100 kg (49 CFR 173.27)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5 5 F	
DOT Quantity Limitations Cargo aircraft only CFR 175.75)	(49 : 200 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2811
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (IMDG)	. TOXIC SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	

UN-No. (IATA)	: 2811
Proper Shipping Name (IATA)	: Toxic solid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger

SECTIO	ON 15: Regulatory information
15.1. US	Federal regulations
1,3,5-Tr	ris[(3,3,3-trifluoropropyl)methyl]cyclotrisiloxane (2374-14-3)
Listed o	on the United States TSCA (Toxic Substances Control Act) inventory

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

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.

#### 15.2. International regulations

#### CANADA

1,3,5-Tris[(3,3,3-trifluoropropyl)methyl]cyclotrisiloxane (2374-14-3)

Listed on the Canadian DSL (Domestic Sustances List)

#### **EU-Regulations**

No additional information available

#### National regulations

1,3,5-Tris[(3,3,3-trifluoropropyl)methyl]cyclotrisiloxane (2374-14-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIOC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

#### 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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:		
	Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
	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
	H301	Toxic if swallowed
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA health hazard NFPA fire hazard NFPA reactivity		<ul> <li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
HMIS III Rating		
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability		<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
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.