

Safety Data Sheet FMS-9921 Date of issue: 11/17/2014 Version

Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product name	: SILANOL TERMINATED POLYTRIFLUOROPROPYLMETHYLSILOXANE
Product code	: FMS-9921
Product form	: Substance
Physical state	: Liquid
Synonyms	: FLUOROSILICONE; POLY(TRIFLUOROPROPYLMETHYLSILOXANE), SILANOL TERMINATED; SILOXANE, TRIFLUOROPROPYLMETHYL, HYDROXY-TERMINATED; SILOXANES and SILICONES, METHYL-3,3,3-TRIFLUOROPROPYL, HYDROXY TERMINATED
Chemical family	: ORGANOSILOXANE
1.2. Recommended use and restrictions	on use
Recommended use	: Chemical intermediate
1.3. Supplier	
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com - www.gelest.com 1.4. Emergency telephone number	AM - 5:30 PM EST
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or n	nixture
GHS-US classificationSerious eye damage/eye irritation Category 2AFull text of H statements : see section 162.2.GHS Label elements, including pred	
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H319 - Causes serious eye irritation
Precautionary statements (GHS US)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> </ul>
2.3. Hazards not otherwise classified (H	NOC)
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/Information	n on ingredients
SECTION 3. Composition/miloimatic	

: Multi-constituent
: SILANOL TERMINATED POLYTRIFLUOROPROPYLMETHYLSILOXANE
: 68607-77-2

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Name		Product identifier	%	GHS-US classification
Silanol terminated polytrifluoropropylmethylsilox	ane	(CAS-No.) 68607-77-2	> 97	Eye Irrit. 2B, H320
Trifluoropropylmethylcyclotrisiloxane		(CAS-No.) 2374-14-3	< 3	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Full text of hazard classes and H-statement	s : see section 16			
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measure	es			
First-aid measures general	medical advice immed	<ul> <li>Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if no available show packaging or label.</li> </ul>		
First-aid measures after inhalation		: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.		
First-aid measures after skin contact	: Wash with plenty of so	pap and water.		
First-aid measures after eye contact		Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses present and easy to do. Continue rinsing. Get medical advice/attention.		
First-aid measures after ingestion	: Never give anything b	: Never give anything by mouth to an unconscious person. Get medical advice/attention.		
4.2. Most important symptoms and				
Symptoms/effects after inhalation	: No information availab			
Symptoms/effects after skin contact	: May cause skin irritati			
Symptoms/effects after eye contact	: Causes serious eye ir			
Symptoms/effects after ingestion	: May be harmful if swa	llowed.		
4.3. Immediate medical attention ar	nd special treatment, if neces	sary		
No additional information available				
SECTION 5: Fire-fighting measu	res			
5.1. Suitable (and unsuitable) exting	guishing media			
Suitable extinguishing media	: Water spray. Water fo	g. Foam. Carbon dioxide.	Dry chemi	cal.
Unsuitable extinguishing media	: None known.			
5.2. Specific hazards arising from t	he chemical			
Fire hazard	: Irritating fumes and or temperatures or open		velop wher	n material is exposed to elevated
5.3. Special protective equipment a	nd precautions for fire-fighte	rs		
Firefighting instructions	: Use water spray or for chemical fire.	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.		
Protection during firefighting		: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.		
SECTION 6: Accidental release r	neasures			
6.1. Personal precautions, protectiv	e equipment and emergency	procedures		
6.1.1. For non-emergency personnel				
Emergency procedures	: Evacuate unnecessar	y personnel.		
6.1.2. For emergency responders				
Protective equipment	: Equip cleanup crew w	ith proper protection.		
6.2. Environmental precautions				
Prevent entry to sewers and public waters.	Notify authorities if liquid enters	s sewers or public waters.		
6.3. Methods and material for conta	inment and cleaning up			
Methods for cleaning up	: Clean up any spills as	soon as possible, using a opriate container for dispo		nt material to collect it. Sweep or
6.4. Reference to other sections				
See Heading 8. Exposure controls and pers	sonal protection.			
SECTION 7: Handling and storage	je			
7.1. Precautions for safe handling				
Precautions for safe handling	: Avoid all eye and skin	contact and do not breath	e vapor ar	nd mist.
Print data: 04/10/2010	EN (English LIS)	en		0021

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Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inclue	ding any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Oxidizing agent.
Storage area	: Store in a well-ventilated place. Store away from heat.
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
8.3. Individual protection measures/Pe	ersonal protective equipment
Personal protective equipment:	
Avoid all unnecessary exposure. Emergency e exposure.	ye wash fountains and safety showers should be available in the immediate vicinity of any potential
Hand protection:	
Neoprene or nitrile rubber gloves	
Eye protection:	
Chemical goggles or safety glasses. Contact le	enses should not be worn
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
	from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black
cartridge) respirator.	
SECTION 9: Physical and chemical	l properties
9.1. Information on basic physical and	
Physical state	: Liquid
Appearance	: Clear liquid. Viscous.
Molecular mass	: 550 - 800 g/mol
Color	: Translucent.
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.379
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
,	: No data available
Melting point	: No data available
Freezing point	
Boiling point	: No data available
Flash point	: > 150 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.28
% Volatiles	: <3%
Solubility	: Insoluble in water.
Log Pow	: No data available

Log Kow

: No data available

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Viscosity, kinematic	: 50 - 160 cSt		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosion limits	: No data available		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Stable.			
10.3. Possibility of hazardous reactions			
Trifluoropropionaldehyde vapors may evolve from hazard and adequate ventilation must be provided	n product used in open systems at temperatures above 150°C. These vapors are a potential health d.		
10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Oxidizing agent.			
10.6. Hazardous decomposition products			
Hydrogen fluoride. Organic acid vapors. Silicon d	iovide		
SECTION 11: Toxicological informati	on		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Trifluoropropylmethylcyclotrisiloxane (2374-	14-3)		
LD50 oral rat	180 mg/kg		
LD50 dermal rabbit	25400		
ATE US (oral)	180 mg/kg body weight		
ATE US (dermal)	25400 mg/kg body weight		
Skin corrosion/irritation	: Not classified		
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	: Not classified		
Specific target organ toxicity – repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Symptoms/effects after inhalation	: No information available.		
Symptoms/effects after skin contact	: May cause skin irritation.		
Symptoms/effects after eye contact	: Causes serious eye irritation.		
Symptoms/effects after ingestion	: May be harmful if swallowed.		
Reason for classification	: Expert judgment		
CECTION 42. Ecological information	- -		
SECTION 12: Ecological information			
12.1. Toxicity			
No additional information available			

#### 12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
40.5 Other advance official
12.5.       Other adverse effects         Effect on the ozone layer       : No additional information available
CECTION 42. Dispessed considerations
SECTION 13: Disposal considerations
13.1.         Disposal methods           Product/Packaging disposal recommendations         : Incinerate. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.
о, 
SECTION 14: Transport information
14.1. UN number
Not regulated for transport.
14.2. UN proper shipping name
Not applicable
14.3. Additional information
Other information : No supplementary information available.
Transport by sea         No additional information available         Air transport         No additional information available
SECTION 15: Regulatory information
15.1. US Federal regulations
Trifluoropropylmethylcyclotrisiloxane (2374-14-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Silanol terminated polytrifluoropropylmethylsiloxane (68607-77-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
15.2. International regulations
CANADA
Trifluoropropylmethylcyclotrisiloxane (2374-14-3)
Listed on the Canadian DSL (Domestic Substances List)
Silanol terminated polytrifluoropropylmethylsiloxane (68607-77-2)
Listed on the Canadian DSL (Domestic Substances List)
EU-Regulations
Trifluoropropylmethylcyclotrisiloxane (2374-14-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
National regulations
Trifluoropropylmethylcyclotrisiloxane (2374-14-3)         Listed on the AICS (Australian Inventory of Chemical Substances)

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

Listed on NZIOC (New Zealand Inventory of Chemicals and 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)

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#### Silanol terminated polytrifluoropropylmethylsiloxane (68607-77-2)

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 Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and 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, developmental and/or reproductive harm

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

Full tex	t of H-phrases::	
	H301	Toxic if swallowed
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H320	Causes eye irritation

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Abbreviations and acronyms Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor. **Hazard Rating** Health 2 Moderate Hazard - Temporary or minor injury may occur 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, Flammability solids and semi solids having a flash point above 200 F. (Class IIIB) 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. Prepared by safety and environmental affairs. Date of issue: 11/17/2014 Version: 1.0

#### SDS US (GHS HazCom 2012) - Custom

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

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