

Dimethoxybis(4-perfluorotolyl)silane Safety Data Sheet 6183316 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/12/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form :	Substance
Substance name :	Dimethoxybis(4-perfluorotolyl)silane
CAS No :	1309602-60-5
Product code :	6183-3-16
Formula :	C16H6F14O2Si
Other means of identification :	MFCD16621308
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against
	Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safety da	ta 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	
1.4. Emergency telephone number	
Emergency number :	(844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	ture
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation	
Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritati	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US) :	
- nazaro pietogranis (en e ee)	GHS07
Signal word (GHS-US) :	Warning
Hazard statements (GHS-US) :	H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US) :	 P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant

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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 on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Dimethoxybis(4-perfluorotolyl)silane (Main constituent)	(CAS No) 1309602-60-5	<= 100	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			
1.1. Description of first aid measures			
ïrst-aid measures general	: In case of accident or if you feel unwell, s where possible). Move the affected perso		,
First-aid measures after inhalation	: Remove person to fresh air and keep con respiration. Get medical advice/attention		ing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water. Get	medical advice/att	ention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with v present and easy to do. Continue rinsing		
irst-aid measures after ingestion	: Do NOT induce vomiting. Never give any mouth out with water. Get medical advice		an unconscious person. Rinse
.2. Most important symptoms and effe	ects, both acute and delayed		
Symptoms/injuries	: The most important known symptoms an 2.2) and/or in section 11.	d effects are descr	bed in the labelling (see section
I.3. Indication of any immediate medic	al attention and special treatment needed		
Freat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. I	Dry powder. Water	spray. Use extinguishing media
0 0	appropriate for surrounding fire.		
.2. Special hazards arising from the s	ubstance or mixture		
ire hazard	: Thermal decomposition generates: Carb	on oxides. Hydroge	n fluoride. Silicon oxides.
Explosion hazard	: Risk of explosion if heated under confine containers. May form flammable/explosiv		
3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight fire	•	•
Protection during firefighting	: Wear gas tight chemically protective clot apparatus. For further information refer to		
SECTION 6: Accidental release mea			
	quipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ensur vapor or spray.	e adequate air ven	illation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel			
5.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped with s	uitable protective e	quipment may intervene.
0 11	: Only qualified personnel equipped with s	uitable protective e	quipment may intervene.

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Emergency procedures	 Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify autho	rities if product enters sewers or public waters.
6.3. Methods and material for containr	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	: 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 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, inclue	
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
SECTION 8: Exposure controls/per	sonal protection
	sonal protection
8.1. Control parameters	sonal protection
8.1. Control parameters No additional information available	sonal protection
8.1. Control parameters No additional information available 8.2. Exposure controls 8.2.	 sonal protection 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.
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
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8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection	 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. Protective gloves. 29 CFR 1910.138: Hand Protection.
 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory
 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection.
8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection.
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 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection.
 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection.
 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor threshold 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection.
 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor threshold pH 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection. Properties Liquid No data available No data available No data available
 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor threshold pH Melting point 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection. Properties Liquid No data available
 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor threshold pH Melting point Freezing point 	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection. properties Liquid No data available
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No additional information available 8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical	 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. Protective gloves. 29 CFR 1910.138: Hand Protection. Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. Safety shoes. 29 CFR 1910.136: Foot Protection. properties Liquid No data available

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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
Molecular mass	: 524.28 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

No additional information available

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. Moisture.

10.5. Incompatible materials

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		
11.1. Information on toxicological effect	cts	
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

SECT	ION 12: Ecological information		
12.1.	Toxicity		
No addi	itional information available		
12.2.	Persistence and degradability		
No addi	No additional information available		

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12.3.	Bioaccumulative potential		
No addit	tional information available		
12.4.	Mobility in soil		
No addit	tional information available		
12.5.	Other adverse effects		
	tional information available		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations Additional information : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

- Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Recycle the material as far as possible.
- **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:

Dimethoxybis(4-perfluorotolyl)silane	CAS No 1309602-60-5	100%	
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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

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

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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	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.		
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.		
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.		
HMIS III Rating			
Health	: 2 Moderate Hazard - Temporary or minor injury may occur		
Flammability	: 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)		
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.