

Date of issue: 08/09/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Trimethyl(pentafluorophenyl)silane
CAS No	: 1206-46-8
Product code	: 5681-3-X0
Formula	: C9H9F5Si
Synonyms	: (Pentafluorophenyl)trimethylsilane; Trimethyl(2,3,4,5,6-pentafluorophenyl)silane; 1,2,3,4,5-
	pentafluoro-6-(trimethylsilyl)benzene
Other means of identification	: MFCD00092630
1.2. Relevant identified uses of the s	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 sa	fety data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States of Americ	са
T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs	s com
1.4. Emergency telephone number	<u></u>
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
	. (07-7) 020-7000 (0E Oompany - Account 10000)
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	
	or mixture
Flam. Liq. 3 H226 - Flammable liquid and	
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 H315 - Causes skin irritation	i I
Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2A H315 - Causes skin irritation H319 - Causes serious eye	irritation
Flam. Liq. 3H226 - Flammable liquid and Skin Irrit. 2Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirator	irritation
Flam. Liq. 3H226 -Flammable liquid andSkin Irrit. 2H315 -Causes skin irritationEye Irrit. 2AH319 -Causes serious eyeSTOT SE 3H335 -May cause respirator	irritation
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Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation
Flam. Liq. 3       H226 - Flammable liquid and         Skin Irrit. 2       H315 - Causes skin irritation         Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirator         Full text of H-phrases: see section 16         2.2.       Label elements	irritation
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	<ul> <li>March 26, 2012 / Rules and Regulations</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</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>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>		
2.3. Other hazards No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/informat	tion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Trimethyl(pentafluorophenyl)silane (Main constituent)	(CAS No) 1206-46-8	<= 100	Flam. Liq. 3, H226 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 fee where possible). Move the affe	cted personnel away from the	e contaminated area.
First-aid measures after inhalation	respiration. Get medical advice	/attention.	ning. If not breathing, give artificial
First-aid measures after skin contact First-aid measures after eye contact	<ul> <li>Wash with plenty of soap and water. Get medical advice/attention.</li> <li>Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.</li> </ul>		
First-aid measures after ingestion	<ul> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.</li> </ul>		
4.2. Most important symptoms and eff	fects, both acute and delayed		
Symptoms/injuries	: The most important known sym 2.2) and/or in section 11.	ptoms and effects are descr	ibed in the labelling (see section
4.3. Indication of any immediate media	cal attention and special treatment	needed	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon appropriate for surrounding fire		spray. Use extinguishing media
5.2. Special hazards arising from the s	substance or mixture		
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Silicon oxides.		
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.		
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area.	Fight fire remotely due to the	risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".		

SECTION 6: Accidental release mea	asures		
6.1. Personal precautions, protective e	quipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
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".		
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 author	ities if product enters sewers or public waters.		
6.3. Methods and material for containm	ent 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			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
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	2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area	: Store in dry, cool, well-ventilated area.		
SECTION & Exposure controls/per	sonal protection		
SECTION 8: Exposure controls/pers			

### Control parameters 8.1.

No additional information available

8.2.	Exposure controls	
Appropria	ate 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 pro	tection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye prote	ection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and	body protection	: Wear suitable protective clothing.
Respirato	bry protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other info	ormation	: Safety shoes. 29 CFR 1910.136: Foot Protection.

according to Federal Register / Vol. 77, No. 58 / Monda	ıy, March 26, 2012 / Rules and Regulations		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and			
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: -50.2 °C		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: 54 °C		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: No data available		
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	: 1.261 g/ml (@ 25 °C)		
Molecular mass	: 240.25 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	: 1.433 (@ 20 °C)		
<b>SECTION 10: Stability and reactivity</b>	y I		
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and s	torage 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           Strong oxidizing agents.         Incompatible materials			
	·		
10.6. Hazardous decomposition produc			
fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of		
SECTION 11: Toxicological inform	ation		
11.1. Information on toxicological effect			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	Causes serious eye irritation.		
08/09/2017	EN (English US) SDS ID: 56813X0 4/7		

## Trimethyl(pentafluorophenyl)silane

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

	-
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	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects

No additional information available

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 inform	ation
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1993 Flammable liquids, n.o.s., 3, III
UN-No.(DOT)	: UN1993
	: Flammable liquids, n.o.s.
Proper Shipping Name (DOT)	
Proper Shipping Name (DOT) Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

: III - Minor Danger

- : 203
- : 242
- : G Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102)	<ul> <li>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>		
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L		
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	1000		
UN-No. (IMDG)			
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.		
Class (IMDG) Packing group (IMDG)	3 - Flammable liquids		
	: III - substances presenting low danger		
Air transport			
UN-No. (IATA)	: 1993		
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.		
Class (IATA)	: 3 - Flammable Liquids		
Packing group (IATA)	: III - Minor Danger		
SECTION 15: Regulatory information			
15.1. US Federal regulations			
All components of this product are listed, or exc Substances Control Act (TSCA) inventory excep	uded from listing, on the United States Environmental Protection Agency Toxic t for:		
Trimethyl(pentafluorophenyl)silane	CAS No 1206-46-8 100%		
	chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 ments of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986		

### 15.2. International regulations CANADA

No additional information available

### **EU-Regulations**

No additional information available

National regulations No additional information available

## Trimethyl(pentafluorophenyl)silane

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

### 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 tex	t of H-phrases:			
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A	
	Flam. Liq. 3		Flammable liquids Category 3	
	Skin Irrit. 2		Skin corrosion/irritation Category 2	
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
	H226		Flammable liquid and vapor	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	H335		May cause respiratory irritation	
NFPA 1	NFPA health hazard       : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.         NFPA fire hazard       : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.		gh prompt medical attention was neated or exposed to relatively high on can occur. In under fire exposure conditions,	
	II Rating			
Health : 2 Moderate Hazard - Te		: 2 Moderate Hazard - 1	emporary or minor injury may occur	
		temperatures before igr	aterials which must be moderately heated or exposed to high ambient nition will occur. Includes liquids having a flash point at or above 100 F es II & IIIA)	
Physica	al		erials that are normally stable, even under fire conditions, and will NOT erize, 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.