

Safety Data Sheet 2324330 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/05/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Methyl pentafluoromethacrylate
CAS No	: 685-09-6
Product code	: 2324-3-30
Formula	: C5H3F5O2
Synonyms	: Methyl 3,3-difluoro-2-(trifluoromethyl)prop-2-enoate
Other means of identification	: MFCD00153210
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 sa	ifety 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	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Full text of H-phrases: see section 16	
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 : Warning : H315 - Causes skin irritation H310 - Causes skin irritation
	H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing fumes, mist, spray, vapors</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</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>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>
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2.3 Other hazarde				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	)			
Not applicable				
SECTION 3: Composition/information	tion on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
Methyl pentafluoromethacrylate (Main constituent)		(CAS No) 685-09-6	<= 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				
4.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personne		
First-aid measures after inhalation		ove person to fresh air and keep comfort ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid measures after skin contact		with plenty of soap and water. Get med		
First-aid measures after eye contact		: 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.		
First-aid measures after ingestion	First-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.			
4.2. Most important symptoms and ef	fects, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and eff nd/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate med	ical attentio	n and special treatment needed		
Treat symptomatically.				
	2			
SECTION 5: Firefighting measures	5			
	: Alcoh	ol resistant foam. Carbon dioxide. Dry p priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
SECTION 5: Firefighting measures	: Alcoh appro	priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
SECTION 5: Firefighting measures5.1.Extinguishing mediaSuitable extinguishing media	: Alcoh appro substance d	priate for surrounding fire.		
SECTION 5: Firefighting measures         5.1.       Extinguishing media         Suitable extinguishing media         5.2.       Special hazards arising from the	: Alcoh appro substance ( : Therr	priate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen	kides. Hydrogen	fluoride.
SECTION 5: Firefighting measures         5.1.       Extinguishing media         Suitable extinguishing media         5.2.       Special hazards arising from the         Fire hazard	: Alcoh appro substance ( : Therr : Risk (	priate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen	kides. Hydrogen	fluoride.
<ul> <li>SECTION 5: Firefighting measures</li> <li>5.1. Extinguishing media</li> <li>Suitable extinguishing media</li> <li>5.2. Special hazards arising from the Fire hazard</li> <li>Explosion hazard</li> </ul>	: Alcoh appro substance ( : Therr : Risk ( conta : In cas	priate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners. se of fire: Evacuate area. Fight fire remo	kides. Hydrogen t. Use water spra tely due to the ri	fluoride. ay or fog for cooling exposed sk of explosion.
SECTION 5: Firefighting measures5.1.Extinguishing mediaSuitable extinguishing media5.2.Special hazards arising from theFire hazardExplosion hazard5.3.Advice for firefighters	: Alcoh appro substance ( : Therr : Risk ( conta : In cas : Wear	priate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners.	kides. Hydrogen t. Use water spra tely due to the ri in combination v	fluoride. ay or fog for cooling exposed sk of explosion. <i>v</i> ith self contained breathing
SECTION 5: Firefighting measures         5.1.       Extinguishing media         Suitable extinguishing media         5.2.       Special hazards arising from the         Fire hazard         Explosion hazard         5.3.       Advice for firefighters         Firefighting instructions         Protection during firefighting         SECTION 6: Accidental release methods	: Alcoh appro substance o : Therr : Risk o conta : In cas : Wear appar	priate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners. se of fire: Evacuate area. Fight fire remo gas tight chemically protective clothing ratus. For further information refer to sec	kides. Hydrogen t. Use water spra tely due to the ri in combination v	fluoride. ay or fog for cooling exposed sk of explosion. <i>v</i> ith self contained breathing
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6.2.       Environmental precautions         Avoid release to the environment. Notify authorities if product enters sewers or public waters.         6.3.       Methods and material for containment 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 shove 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		
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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 o smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including 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 temperature : 2 - 8 °C Use explosion proof refrigerator		

Storage area : Store in dry, well-ventilated area.

# SECTION 8: Exposure controls/personal protection

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 Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 90 - 92 °C
Flash point	: No data available
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
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Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.373 g/ml (@ 20 °C)
Molecular mass	: 190.07 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	: 1.3288 (@ 20 °C)

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
No additional information available			
10.2.	Chemical stability		
The pro	oduct is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
No addi	itional information available		
10.4.	Conditions to avoid		
Keep av	way from heat, sparks and flame.		
10.5.	Incompatible materials		
Strong oxidizing agents.			
10.6.	Hazardous decomposition products		
l Inder r	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of		

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	: 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 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 add	tional information available		
12.4.	Mobility in soil		
No add	tional information available		
	Other adverse effects		
12.5.			

## 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.

**SECTION 14: Transport information** 

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

# **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:

Methyl pentafluoromethacrylate         CAS No 685-09-6         100%
---------------------------------------------------------------------

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.