

Methyl hexafluoroisopropyl ether Safety Data Sheet 2107370 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/23/2017 Version: 1.0

SECTION 1: Identification .1. Identification	
Product form	: Substance
Substance name	: Methyl hexafluoroisopropyl ether
CAS No	: 13171-18-1
Product code	: 2107-3-70
ormula	: C4H4F6O
ynonyms	: 1,1,1,3,3,3-Hexafluoro-2-methoxypropane
ther means of identification	: MFCD00221772
.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
lse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Jachua, FL 32615 - United States of Americ (386) 462-0788 - F (386) 462-7097 <u>ofo@synquestlabs.com</u> - <u>www.synquestlabs</u>	
.4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
ye Irrit. 2A H319 - Causes serious eye in TOT SE 3 H335 - May cause respirator	
TOT SE 3 H335 - May cause respirator	
TOT SE 3 H335 - May cause respirator	
TOT SE 3 H335 - May cause respiratory full text of H-phrases: see section 16 .2. Label elements	y irritation
TOT SE 3 H335 - May cause respirator full text of H-phrases: see section 16 .2. Label elements GHS-US labeling lazard pictograms (GHS-US)	y irritation
TOT SE 3 H335 - May cause respirator full text of H-phrases: see section 16 .2. Label elements SHS-US labeling	y irritation

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2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
Not applicable					
SECTION 3: Composition/informatic	on on ing	redients			
3.1. Substance					
Substance type	: Mono-	constituent			
Name		Product identifier	%	Classification (GHS-US	5)
Methyl hexafluoroisopropyl ether (Main constituent)		(CAS No) 13171-18-1	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	
Full text of H-phrases: see section 16			1	,	
3.2. Mixture					
Not applicable					
SECTION 4: First aid measures					
4.1. Description of first aid measures					
First-aid measures general		e of accident or if you feel unwell, seek possible). Move the affected personne			el
First-aid measures after inhalation		re person to fresh air and keep comfort tion. Get medical advice/attention.	able for breathin	ig. If not breathing, give art	ificial
First-aid measures after skin contact		with plenty of soap and water. Get mee			
First-aid measures after eye contact	presen	iately flush eyes thoroughly with water t and easy to do. Continue rinsing. Get	t medical advice/	attention.	,
First-aid measures after ingestion		T induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rins	e
4.2. Most important symptoms and effe		-			
Symptoms/injuries		ost important known symptoms and eff d/or in section 11.	ects are describe	ed in the labelling (see sec	tion
4.3. Indication of any immediate medica	al attention	and special treatment needed			
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media		I resistant foam. Carbon dioxide. Dry p riate for surrounding fire.	owder. Water sp	oray. Use extinguishing me	dia
5.2. Special hazards arising from the su	ibstance o	mixture			
Fire hazard	: Therm	al decomposition generates: Carbon or	kides. Hydrogen	fluoride.	
Explosion hazard	: Risk of contair	explosion if heated under confinemen hers.	t. Use water spra	ay or fog for cooling expose	ed
5.3. Advice for firefighters					
Firefighting instructions		e of fire: Evacuate area. Fight fire remo			
Protection during firefighting		pas tight chemically protective clothing tus. For further information refer to see			
SECTION 6: Accidental release measures					
6.1. Personal precautions, protective ec					
General measures		ate unnecessary personnel. Ensure ad or spray.	equate air ventila	ation. Do not breathe gas, f	iumes,
6.1.1. For non-emergency personnel					
Emergency procedures	: Only q	ualified personnel equipped with suitab	le protective equ	uipment may intervene.	
6.1.2. For emergency responders					
Protective equipment		attempt to take action without suitable section 8: "Exposure controls/persona		ment. For further information	on
Emergency procedures		por heavier than air. May accumulate	•	es, particularly at or below	ground
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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 containing	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 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, 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 area	: Store in dry, cool, 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 an	d 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	: 50 - 50.5 °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		
Vapor pressure	: No data available		
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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.38 g/ml (@ 23 °C)
Molecular mass	: 182.06 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	: 1.284 (@ 20 °C)

SECTION 10: Stability and reactivity				
10.1.	Reactivity			
No add	itional information available			
10.2.	Chemical stability			
The pro	oduct is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions			
No add	itional information available			
10.4.	Conditions to avoid			
Koono	way from heat anarka and flome			

Keep away from heat, sparks and flame.

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.

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	DN 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

13.1. Waste treatment methods			
Waste treatment methods	: Remove to a	n authorized incinerator equipped with	an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of co	ontents/container in accordance with lic	ensed collector's sorting instructions.
Additional information	: Recycle the r	naterial as far as possible.	
SECTION 14: Transport informa	tion		
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 inform	ation		
15.1. US Federal regulations			
All components of this product are listed, Substances Control Act (TSCA) inventor		g, on the United States Environmental I	Protection Agency Toxic
Methyl hexafluoroisopropyl ether	-	CAS No 13171-18-1	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

Methyl hexafluoroisopropyl ether (13171-18-1) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law)

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 tex	t 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 f	nealth hazard ïire hazard reactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 0 - Materials that will not burn. : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamma	ability	: 0 Minimal Hazard - Materials that will not burn
Physica	al	: 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.