

Safety Data Sheet 1100340 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/02/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-Fluorohexadecane
CAS No	: 408-38-8
Product code	: 1100-3-40
Formula	: C16H33F
Other means of identification	: MFCD02258659
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
No additional information available	
1.3. Details of the supplier of the safety d	lata 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	<u>1</u>
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 mi	ixture
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritatiSTOT SE 3H335 - May cause respiratory irritFull text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	
	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)	<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</li> <li>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>
2.3. Other hazards	
No additional information available	

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2.4. Unknown acute toxicity (GHS L	JS)			
Not applicable				
SECTION 3: Composition/information on ingredients				
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
1-Fluorohexadecane (Main constituent)		(CAS No) 408-38-8	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				,
.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measure				
irst-aid measures general		e of accident or if you feel unwell, seek possible). Move the affected personnel		
First-aid measures after inhalation		ve person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathir	ng. 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	advice	diately flush eyes thoroughly with water a/attention.		
First-aid measures after ingestion		DT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
.2. Most important symptoms and	effects, both a	acute and delayed		
symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	ects are describ	ed in the labelling (see section
.3. Indication of any immediate me reat symptomatically.		n and special treatment needed		
SECTION 5: Firefighting measur	es			
<b>5.1. Extinguishing media</b> Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
.2. Special hazards arising from th	e substance o	or mixture		
ire hazard		nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride.
.3. Advice for firefighters		· -		
Protection during firefighting		t attempt to take action without suitable o section 8: "Exposure controls/persona		oment. For further information
SECTION 6: Accidental release r	neasures			
6.1. Personal precautions, protective				
Seneral measures		ate unnecessary personnel. Ensure ade or spray.	equate air ventil	ation. Do not breathe gas, fumes,
5.1.1. For non-emergency personnel				
.1.2. For emergency responders	: Only o	qualified personnel equipped with suitabl	e protective equ	upment may intervene.
Protective equipment		t attempt to take action without suitable o section 8: "Exposure controls/persona		oment. For further information
5.2. Environmental precautions				
void release to the environment. Notify au	thorities if prod	uct enters sewers or public waters.		
3.3. Methods and material for conta	ainment and cl	eaning up		
For containment	: Dike f	or recovery or absorb with appropriate n	naterial.	
Nethods for cleaning up	explos	up large spills with pump or vacuum and sion-proof equipment. Take up small spi into appropriate container for disposal.		

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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	
<b>SECTION 7: Handling and stor</b>	age
7.1. Precautions for safe handling	y and the second se
Precautions for safe handling	: 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	
Storage conditions	: Keep container tightly closed.
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.	
Eye protection	: Chemical goggles or safety glasses. Face shield.	
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.	

### **SECTION 9: Physical and chemical properties**

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Viscosity, kinematic	: No data available		
Viscosity	: No data available		
Decomposition temperature	: No data available		
Auto-ignition temperature	: No data available		
Log Pow	: No data available		
Solubility	: No data available		
Molecular mass	: 244.43 g/mol		
Specific gravity / density	: 0.809 g/ml		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Vapor pressure	: No data available		
Oxidizing properties	: No data available		
Explosive properties	: No data available		
Explosion limits	: No data available		
Flammability (solid, gas)	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flash point	: No data available		
Boiling point	: 181 °C (@ 24 mmHg)		
Freezing point	: No data available		
Melting point	: No data available		
рН	: No data available		
Odor threshold	: No data available		
Odor	: No data available		
Color	: No data available		
9.1. Information on basic physical and Physical state	: Liquid		

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Viscosity	y, dynamic	: No data available
9.2.	Other information	
No additi	ional information available	
SECTIO	ON 10: Stability and reactivity	у
10.1.	Reactivity	
No additi	ional information available	
10.2.	Chemical stability	
The prod	luct is stable at normal handling and st	orage conditions.
10.3.	Possibility of hazardous reactions	
No additi	ional information available	
10.4.	Conditions to avoid	
No additi	ional information available	
10.5.	Incompatible materials	
Strong ox	xidizing agents.	
10.6.	Hazardous decomposition product	ts
	ormal conditions of storage and use, ha Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of

SECTION 11: Toxicological information		

Information on toxicological effects 11.1.

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

SECTIO	DN 12: Ecological information			
	Toxicity			
No additio	onal information available			
12.2.	Persistence and degradability			
No additio	No additional information available			
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No additio	onal information available			
12.5.	Other adverse effects			
No additio	onal information available			

SECTIO	SECTION 13: Disposal considerations			
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.		

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### **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:

1-Fluorohexadecane	CAS No 408-38-8	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**

#### 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	

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### NFPA health hazard

NEPA nealth hazard	injury even if no treatment is given.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

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HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
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.