

Hexafluoroisopropyl acetate Safety Data Sheet 212333M according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/11/2019 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: Hexafluoroisopropyl acetate
CAS No	: 6919-79-5
Product code	: 2123-3-3M
Formula	: C5H4F6O2
Synonyms	: 1,1,1,3,3,3-Hexafluoropropan-2-yl acetate
Other means of identification	: MFCD00180765
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 saf	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator	irritation
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye iSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 16	irritation
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye iSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 162.2.Label elements	irritation
Skin Irrit. 2       H315 - Causes skin irritation         Eye Irrit. 2A       H319 - Causes serious eye i         STOT SE 3       H335 - May cause respirator         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	irritation
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye iSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 162.2.Label elements	irritation
Skin Irrit. 2       H315 - Causes skin irritation         Eye Irrit. 2A       H319 - Causes serious eye i         STOT SE 3       H335 - May cause respirator         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	n irritation ry irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	n irritation ry irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>irritation ry irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: Warning</li> <li>: H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation</li> </ul>

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	lense P312 P321 P332 P337 P362 P370 P403 P403 P405	+P351+P338 - If in eyes: Rinse cautiousl s, if present and easy to do. Continue rin - Call a POISON CENTER or doctor/phy - Specific treatment (see supplemental f +P313 - If skin irritation occurs: Get medi +P313 - If eye irritation persists: Get medi +P364 - Take off contaminated clothing a +P378 - In case of fire: Use dry sand, dry +P233 - Store in a well-ventilated place. +P235 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap	sing rsician if you fee irst aid instructio cal advice/atten lical advice/atter and wash it befo chemical or alc Keep container Keep cool	l unwell ins on this label) tion ntion re reuse cohol-resistant foam to extinguish tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US) Not applicable				
SECTION 3: Composition/information	on in	gredients		
3.1. Substance	N 4			
Substance type :	Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
Hexafluoroisopropyl acetate (Main constituent)		(CAS No) 6919-79-5	<= 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				
C C	where	se of accident or if you feel unwell, seek is possible). Move the affected personnel	away from the c	contaminated area.
	respii	ove person to fresh air and keep comfortation. Get medical advice/attention.		
		with plenty of soap and water. Get medi		
,	prese	diately flush eyes thoroughly with water t nt and easy to do. Continue rinsing. Get	medical advice/	attention.
First-aid measures after ingestion :		OT induce vomiting. Never give anything nout with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effects				
Symptoms/injuries :		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical a	ttentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
<b>v v</b>		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the subs	tance	or mixture		
Fire hazard :	Therr	nal decomposition generates: Carbon ox	ides. Hydrogen i	fluoride.
Explosion hazard :		of explosion if heated under confinement iners. May form flammable/explosive vap		y or fog for cooling exposed
5.3. Advice for firefighters				
	In cas	se of fire: Evacuate area. Fight fire remot	ely due to the ris	sk of explosion.
Protection during firefighting :		gas tight chemically protective clothing i atus. For further information refer to sect		

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equ	ipment 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 authoritie	s if product enters sewers or public waters.		
6.3. Methods and material for containment	nt 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, 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 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.

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SECTION 9: Physical and chemica	SECTION 9: Physical and chemical properties		
9.1. Information on basic physical an			
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	: No data available		
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		
Relative density	: No data available		
Relative vapor density at 20 °C	: No data available		
Molecular mass	: 210.0745 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			
SECTION 10: Stability and reactivi	ity		

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.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing 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 effe	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	

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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SECI	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available
12.5.	Other adverse effects
NI	itianal information evolution

No additional information available
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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.	
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport informat		

### SECTION 14: Transport information

Department of	Transportation	(DOT)
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In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

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

- : UN3272 Esters, n.o.s., 3, III
- : UN3272
- : Esters, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242

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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>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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)	: 60 L
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	
UN-No. (IMDG)	: 3272
Proper Shipping Name (IMDG)	: ESTERS, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3272
Proper Shipping Name (IATA)	: Esters, 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 exce	luded from listing, on the United States Environmental Protection Agency Toxic ot for:
Hexafluoroisopropyl acetate	CAS No 6919-79-5 100%

Hexafluoroisopropyl acetate	CAS No 6919-79-5	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

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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

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	
IFPA fire hazard IFPA reactivity	<ul> <li>given.</li> <li>2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>	
IMIS III Rating Iealth	2 Moderate Hazard - Temporary or minor injury may occur	
lammability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)	
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.