

Hexafluoroisopropyl 2-fluoroacrylate Safety Data Sheet 2324365 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/13/2018 Version: 1.0

SECTION 1: Identification	
I.1. Identification	
Product form	: Substance
Substance name	: Hexafluoroisopropyl 2-fluoroacrylate
CAS No	: 74359-06-1
Product code	: 2324-3-65
formula	: C6H3F7O2
Synonyms	: 1,1,1,3,3,3-Hexafluoropropan-2-yl 2-fluoroprop-2-enoate
Other means of identification	: MFCD03094251
	ubstance or mixture and uses advised against
Jse 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	
Alachua, FL 32615 - United States of America 「 (386) 462-0788 - F (386) 462-7097	a
nfo@synquestlabs.com - www.synquestlabs.	.com
.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Skin Irrit. 2 H315 - Causes skin irritation	
Skin Irrit. 2H315 -Causes skin irritationEye Irrit. 2AH319 -Causes serious eye irSTOT SE 3H335 -May cause respiratory	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements	
Eye Irrit. 2A H319 - Causes serious eye irrit. STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 ritiation :
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 rivitation : viritation : viritation : viritation : Warning
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	 ritiation :

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

2.3. Other hazards					
2.3. Other nazards No additional information available					
2.4. Unknown acute toxicity (GHS US)					
Not applicable					
SECTION 3: Composition/informatio	on on in	greatents			
3.1. Substance		a second the second			
Substance type	: Mono	-constituent			
Name		Product identifier	%	Classification (GHS-US)	
Hexafluoroisopropyl 2-fluoroacrylate (Main constituent)		(CAS No) 74359-06-1	<= 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 a possible). Move the affected personnel			
First-aid measures after inhalation		ove person to fresh air and keep comforta ration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial	
First-aid measures after skin contact	: Wash	with plenty of soap and water. Get med	ical advice/atten	tion.	
First-aid measures after eye contact		diately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get			
First-aid measures after ingestion		OT induce vomiting. Never give anything h out with water. Get medical advice/atte		unconscious person. Rinse	
4.2. Most important symptoms and effe	cts, both	acute and delayed			
Symptoms/injuries		nost important known symptoms and effe	ects are describe	ed in the labelling (see section	
4.3. Indication of any immediate medica	l attentio	n and special treatment needed			
4.3. Indication of any immediate medica Treat symptomatically.	I attentio	n and special treatment needed			
Treat symptomatically.	l attentio	n and special treatment needed			
Treat symptomatically. SECTION 5: Firefighting measures	I attentio	n and special treatment needed			
Treat symptomatically.SECTION 5: Firefighting measures5.1.Extinguishing media			awdar Watar sa	ray Use extinguishing modia	
Treat symptomatically.SECTION 5: Firefighting measures5.1.Extinguishing mediaSuitable extinguishing media	: Alcoh appro	ol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media	
Section 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the suitable	: Alcoh appro	ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire. or mixture			
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the surfice hazard	: Alcoh appro bstance (: Therr	ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire. or mixture nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride.	
Section 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the suitable	: Alcoh appro bstance : Therr : Risk	ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement	ides. Hydrogen	fluoride.	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard	: Alcoh appro bstance : Therr : Risk	ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire. or mixture nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride.	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters	: Alcoh appro bstance : Therr : Risk conta	ol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners.	ides. Hydrogen . Use water spra	fluoride. ay or fog for cooling exposed	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions	: Alcoh appro bstance : Therr : Risk conta : In cas	ol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remot	ides. Hydrogen . Use water spra ely due to the ris	fluoride. ay or fog for cooling exposed sk of explosion.	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters	: Alcoh appro bstance : Therr : Risk conta : In cas : Wear	ol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners.	ides. Hydrogen . Use water spra ely due to the ris n combination w	fluoride. ay or fog for cooling exposed sk of explosion. <i>r</i> ith self contained breathing	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions	: Alcoh appro bstance : Therr : Risk conta : In cas : Wear appa	ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remot	ides. Hydrogen . Use water spra ely due to the ris n combination w	fluoride. ay or fog for cooling exposed sk of explosion. <i>r</i> ith self contained breathing	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting	: Alcoh appro bstance : Therr : Risk conta : In cas : Wear appa sures	ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remot gas tight chemically protective clothing i ratus. For further information refer to sec	ides. Hydrogen . Use water spra ely due to the ris n combination w	fluoride. ay or fog for cooling exposed sk of explosion. <i>r</i> ith self contained breathing	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea	: Alcoh appro bstance : Therr : Risk conta : In cas : Wear appa sures uipment : Evac	ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remot gas tight chemically protective clothing i ratus. For further information refer to sec	ides. Hydrogen . Use water spra ely due to the ris n combination w tion 8: "Exposure	fluoride. ay or fog for cooling exposed sk of explosion. /ith self contained breathing e controls/personal protection".	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ex General measures	: Alcoh appro bstance : Therr : Risk conta : In cas : Wear appa sures uipment : Evac	ool resistant foam. Carbon dioxide. Dry per opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. Se of fire: Evacuate area. Fight fire remot gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ade	ides. Hydrogen . Use water spra ely due to the ris n combination w tion 8: "Exposure	fluoride. ay or fog for cooling exposed sk of explosion. /ith self contained breathing e controls/personal protection".	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective extended General measures	: Alcoh appro bstance (: Therr : Risk conta : In cas : Wear appa sures sures uipment : Evac vapol	ool resistant foam. Carbon dioxide. Dry per opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. Se of fire: Evacuate area. Fight fire remot gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ade	ides. Hydrogen . Use water spra ely due to the ris n combination w tion 8: "Exposure equate air ventila	fluoride. ay or fog for cooling exposed sk of explosion. //th self contained breathing e controls/personal protection".	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ex General measures 6.1.1. For non-emergency personnel	: Alcoh appro bstance (: Therr : Risk conta : In cas : Wear appa sures sures uipment : Evac vapol	nol resistant foam. Carbon dioxide. Dry per opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remote gas tight chemically protective clothing is ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ade or spray.	ides. Hydrogen . Use water spra ely due to the ris n combination w tion 8: "Exposure equate air ventila	fluoride. ay or fog for cooling exposed sk of explosion. //th self contained breathing e controls/personal protection".	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective extended General measures 6.1.1. For non-emergency personnel Emergency procedures	 Alcohappro bstance of Therr Risk of conta In case Wear appa Sures uipment Evac vapor Only Do no 	nol resistant foam. Carbon dioxide. Dry per opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remote gas tight chemically protective clothing is ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ade or spray.	ides. Hydrogen . Use water spra ely due to the ris n combination w tion 8: "Exposure equate air ventila e protective equip	fluoride. ay or fog for cooling exposed sk of explosion. <i>i</i> th self contained breathing e controls/personal protection". ation. Do not breathe gas, fumes, uipment may intervene.	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ex General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	: Alcoh appro bstance : Therr : Risk conta : In cas : Wear appa sures uipment : Evac vapor : Only : Do no refer	nol resistant foam. Carbon dioxide. Dry per opriate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remote gas tight chemically protective clothing is ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure adde ' or spray. qualified personnel equipped with suitable to section 8: "Exposure controls/personal vapor heavier than air. May accumulate in Market action without suitable to section the suitable of the section the suitable of the section the suitable of the section the section the suitable of the section t	ides. Hydrogen . Use water spra ely due to the ris n combination w tion 8: "Exposur equate air ventila e protective equip protective equip l protection".	fluoride. ay or fog for cooling exposed sk of explosion. <i>i</i> /ith self contained breathing e controls/personal protection". ation. Do not breathe gas, fumes, iipment may intervene.	

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

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 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 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 o	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	: 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
00/10/00/10	

Safety Data Sheet

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

Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 240.0756 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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional 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

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

classified ses skin irritation. ses serious eye irritation. classified
ses serious eye irritation. classified
classified
classified
classified
classified
cause respiratory irritation.
classified
classified

 12.1. Toxicity

 No additional information available

 12.2. Persistence and degradability

 No additional information available

 12.3. Bioaccumulative potential

 No additional information available

Safety Data Sheet

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

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

3.1. Waste treatment methods		
Vaste treatment methods	: Remove to an authorized incinerator equipped wit	th an afterburner and a flue gas scrubber.
Vaste 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 information	ation	
Department of Transportation (DOT)		
n accordance with DOT		
Not regulated for transport		
TDG		
lo additional information available		
ransport by sea		
No additional information available		
Air transport		
lo additional information available		
	nation	
SECTION 15: Regulatory inforn		

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

Hexafluoroisopropyl 2-fluoroacrylate (74359-06-1) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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

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

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	residual injury even thoug given. NFPA fire hazard : 0 - Materials that will not		en under fire exposure conditions,	
HMIS I	II Rating			
Health		: 2 Moderate Hazard - Ter	nporary or minor injury may occur	
Flamma	ability	: 0 Minimal Hazard - Mate	rials that will not burn	
Physica	al		rials that are normally stable, even under fire conditions, and will NOT ize, 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.