

3-Fluoropropyl acrylate Safety Data Sheet 232431A according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/09/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3-Fluoropropyl acrylate
CAS No	: 861001-82-3
Product code	: 2324-3-1A
Formula	: C6H9FO2
Other means of identification	: MFCD20489378
1.2. Relevant identified uses of the su	ubstance 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 safe	ty data 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.	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	bn
2.1. Classification of the substance of	
Classification (GHS-US)	
Eye Irrit. 2AH319 - Causes serious eye irrSTOT SE 3H335 - May cause respiratoryFull text of H-phrases: see section 162.2.Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS07
Signal word (GHS-US)	GHS02 GHS07 : Warning
Signal word (GHS-US) Hazard statements (GHS-US)	
	 Warning H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation

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lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extingui P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant				
2.3. Other hazards No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informati	on on ingredients			
3.1. Substance	on on ingreatents			
Substance type	: Mono-constituent			
Name	Product identifier	%	Classification (GHS-US)	
3-Fluoropropyl acrylate (Main constituent)	(CAS No) 861001-82-3	70 <= 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			STOT SE 3, H335	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures				
First-aid measures general	: In case of accident or if you feel unv where possible). Move the affected			
First-aid measures after inhalation		 Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention. 		
First-aid measures after skin contact	: Wash with plenty of soap and water			
First-aid measures after eye contact	: Immediately flush eyes thoroughly we present and easy to do. Continue ri	nsing. Get medical advi	ce/attention.	
First-aid measures after ingestion	: Do NOT induce vomiting. Never giv mouth out with water. Get medical a	, , ,	an unconscious person. Rinse	
4.2. Most important symptoms and effe				
Symptoms/injuries	: The most important known sympton 2.2) and/or in section 11.	ns and effects are desc	ribed in the labelling (see section	
4.3. Indication of any immediate medic Treat symptomatically.	al attention and special treatment need	ded		
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistant foam. Carbon diox appropriate for surrounding fire.	tide. Dry powder. Water	spray. Use extinguishing media	
5.2. Special hazards arising from the s				
Fire hazard	: Thermal decomposition generates:			
Explosion hazard	: Risk of explosion if heated under co containers. May form flammable/exp			
5.3. Advice for firefighters				
Firefighting instructions	: In case of fire: Evacuate area. Fight	•	•	
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".			

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SECTI	SECTION 6: Accidental release measures			
6.1.	1. Personal precautions, protective equipment and emergency procedures			
6.1.1. No additi	6.1.1. For non-emergency personnel No additional information available			
6.1.2. No additi	6.1.2. For emergency responders No additional information available			
6.2.	Environmental precautions			
No additi	onal information available			
6.3.	Methods and material for containme	nt and cleaning up		
No additi	onal information available			
6.4.	Reference to other sections			
No additi	onal information available			
SECTI	ON 7: Handling and storage			
7.1.	Precautions for safe handling			
Additiona	al hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
Precautio	ons 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.				
		smoke when using this product. Always wash hands after handling the product.		
7.2.	Conditions for safe storage, includir			
	Conditions for safe storage, includir I measures			
Technica		g any incompatibilities		
Technica Storage	I measures	g any incompatibilities : Comply with applicable regulations.		
Technica Storage Incompa	I measures conditions	 ig any incompatibilities : Comply with applicable regulations. : Keep container closed when not in use. Keep away from ignition sources. 		

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.

SECTIO	ON 9: Physical and chem	ical properties
	Information on basic physical	
Physical s	state	: Liquid
Color		: No data available
Odor		: No data available
Odor three	shold	: No data available
рН		: No data available
Melting po	pint	: No data available
Freezing p	point	: No data available
Boiling po	int	: No data available

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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	: 132.13 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

No additional information available				
SECTION 10: Stability and reactivity				
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				
May polymerize.				
10.4. Conditions to avoid				
No additional information available				
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 fire, see Section 5.	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

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SECT	ION 12: Ecological information		
12.1.	Toxicity		
No additional information available			
12.2.	Persistence and degradability		
No additional information available			
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No addi	itional information available		
12.5.	Other adverse effects		
No addi	itional information available		

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 information

Department of Transportation (DOT)

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) DOT Special Provisions (49 CFR 172.102)

- : 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
- : 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.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 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).

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

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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 excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

3-Fluoropropyl acrylate	CAS No 861001-82-3	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
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

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
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	3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
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.