

### tert-Butyl (2-fluoroethyl)carbamate

Safety Data Sheet 415630Y according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/14/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: tert-Butyl (2-fluoroethyl)carbamate
CAS No	: 178181-52-7
Product code	: 4156-3-0Y
Formula	: C7H14FNO2
Other means of identification	: MFCD22374847
1.2. Relevant identified uses of the substa	ance 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 safety d	ata 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	
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	xture
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritatioSTOT SE 3H335 - May cause respiratory irritaFull 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>P337+P313 - If see irritation persists: Get medical advice/attention</li> <li>P364+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>

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cording to Federal Register / Vol. 77, No. 58 / Mond 2.3. Other hazards	ay, March 26, 2	012 / Rules and Regulations		
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
lot applicable				
SECTION 3: Composition/informat	ion on ing	redients		
B.1. Substance Substance type	· Mono (	constituent		
	. 101010-0			
Name		Product identifier (CAS No) 178181-52-7	% <= 100	Classification (GHS-US) Skin Irrit. 2, H315
tert-Butyl (2-fluoroethyl)carbamate (Main constituent)		(CAS NO) 170101-52-7	<= 100	Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general		of accident or if you feel unwell, seek possible). Move the affected personne		
irst-aid measures after inhalation		e person to fresh air and keep comfort ion. Get immediate medical advice/att		g. If not breathing, give artificial
First-aid measures after skin contact		vith plenty of soap and water. Get imm		
irst-aid measures after eye contact	presen	ately flush eyes thoroughly with water and easy to do. Continue rinsing. Get	t immediate med	ical advice/attention.
irst-aid measures after ingestion		T induce vomiting. Never give anything out with water. Get immediate medical		
.2. Most important symptoms and eff	ects, both a	cute and delayed		
Symptoms/injuries		ost important known symptoms and eff d/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medi	cal attention	and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		resistant foam. Carbon dioxide. Dry p riate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the	substance or	mixture		
Fire hazard	: Therma	al decomposition generates: Carbon o	kides. Hydrogen	fluoride. Nitrogen oxides.
Explosion hazard	: Risk of contair	explosion if heated under confinemen ers.	t. Use water spra	ay or fog for cooling exposed
3. Advice for firefighters				
Firefighting instructions	: In case	of fire: Evacuate area. Fight fire remo	tely due to the ri	sk of explosion.
Protection during firefighting		as tight chemically protective clothing tus. For further information refer to see		
SECTION 6: Accidental release me				
5.1. Personal precautions, protective				
Seneral measures		ite unnecessary personnel. Ensure ad or spray.	equate air ventila	ation. Do not breathe gas, fumes,
5.1.1. For non-emergency personnel				
mergency procedures	: Only q	alified personnel equipped with suitab	le protective equ	lipment 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
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 containme	ent 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, includi	ng 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**

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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	: No data available		
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		
Physical state	: Liquid		
9.1. Information on basic physical an	d chemical properties		

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 163.19 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 of	oxidizing agents.
10.6.	Hazardous decomposition products
	ormal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of section 5.

SECTION 11: Toxicological information				
11.1.	Information on toxicological effects			
Acute to	xicity	: Not classified		

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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 Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	SECTION 12: Ecological information		
12.1.	Toxicity		
	itional information available		
12.2.	Persistence and degradability		
No add	itional information available		
12.3.	Bioaccumulative potential		
No add	itional 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 an authorized incinerator equipped with	an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with lic	ensed collector's sorting instructions.
Additional information	: Recycle the material 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		
	an analysis of from Patheneses the United Otates E	
All components of this product are listed, Substances Control Act (TSCA) inventory	or excluded from listing, on the United States Environmental F / except for:	Protection Agency Toxic
tert-Butyl (2-fluoroethyl)carbamate	CAS No 178181-52-7	100%

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	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
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	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
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.