

1-Fluoro-4-(trifluoromethoxy)benzene Safety Data Sheet 2607341 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/30/2018 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 1-Fluoro-4-(trifluoromethoxy)benzene
CAS No	: 352-67-0
Product code	: 2607-3-41
Formula	: C7H4F4O
Synonyms	: Benzene, 1-fluoro-4-(trifluoromethoxy)-
Other means of identification	: MFCD00040835
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	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ	ca
T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	<u>s.com</u>
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	
Classification (GHS-US) Flam. Liq. 2 H225 - Highly flammable liqu Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator	rritation
Flam. Liq. 2 H225 - Highly flammable liqu Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i	rritation
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Flam. Liq. 2H225 - Highly flammable liquSkin 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	rritation y irritation
Flam. Liq. 2 H225 - Highly flammable liqu 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)	rritation y irritation
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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	lense P312 P321 P332 P337 P362 P370 P403 P403 P405	 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact 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 extinguish 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/information	on on in	gredients		
3.1. Substance		5		
Substance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
1-Fluoro-4-(trifluoromethoxy)benzene (Main constituent)		(CAS No) 352-67-0	<= 100	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				0.0.0101010
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 is possible). Move the affected personnel		
First-aid measures after inhalation	: Rem	ove person to fresh air and keep comfortaration. Get medical advice/attention.	•	
First-aid measures after skin contact	: Wasł	n with plenty of soap and water. Get med	ical advice/atter	ntion.
First-aid measures after eye contact		ediately flush eyes thoroughly with water t 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 and/or in section 11.	ects are describ	ed in the labelling (see section
4.3. Indication of any immediate medic	al attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the su	ubstance	or mixture		
Fire hazard		nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride.
Explosion hazard	: Whei	n mixed with air and exposed to an ignitic de if confined.		
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.
Protection during firefighting	: Wear	gas tight chemically protective clothing i ratus. For further information refer to sec	n combination v	vith self contained breathing

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

SECTION 6: Accidental release meas	ures		
6.1. Personal precautions, protective equ	ipment and emergency procedures		
	: 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	at 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	g 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.

1-Fluoro-4-(trifluoromethoxy)benzene Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	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	: 104 - 105 °C
Flash point	: 15 °C
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
Specific gravity / density	: 1.323 g/ml (@ 20 °C)
Molecular mass	: 180.0997 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 Refractive index	: 1.393 (@ 20 °C)
SECTION 10: Stability and reactivit	У
10.1. Reactivity No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	torage 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 oxidizing agents.	
	its
10.6. Hazardous decomposition produc	
Under normal conditions of storage and use, h	
Under normal conditions of storage and use, h fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case c
Under normal conditions of storage and use, h fire, see Section 5. SECTION 11: Toxicological information	azardous decomposition products should not be produced. Hazardous decomposition products in case c ation
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Under normal conditions of storage and use, h fire, see Section 5. SECTION 11: Toxicological informa 11.1. Information on toxicological effect Acute toxicity	azardous decomposition products should not be produced. Hazardous decomposition products in case of ation ts : Not classified

Safety Data Sheet

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

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

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

SECTION 13: Disposal consideration	15	
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 Symbols

- : UN1993 Flammable liquids, n.o.s., 3, II
- : UN1993
- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : II Medium Danger
- : 202
- : 242
- : G Identifies PSN requiring a technical name

Safety Data Sheet

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

DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.
TDG No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium 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:

1-Fluoro-4-(trifluoromethoxy)benzene	CAS No 352-67-0	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

1-Fluoro-4-(trifluoromethoxy)benzene (352-67-0)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Safety Data Sheet

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

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA fire hazard NFPA reactivity	 given. 3 - Liquids and solids that can be ignited under almost all ambient conditions. 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 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.