

4-Fluoro(pentafluorosulfanyl)benzene Safety Data Sheet 5671302 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/11/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-Fluoro(pentafluorosulfanyl)benzene
CAS No	: 1063625-86-4
Product code	: 5671-3-02
Formula	: C6H4F6S
Synonyms	: Pentafluoro(4-fluorophenyl)sulfur; (p-Fluorophenyl)pentafluorosulfur
Other means of identification	: MFCD16817601
Use of the substance/mixture	substance or mixture and uses advised against : Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the sat	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	ca
Emergency telephone number	: (844) 523-4086 (3E Company - Account 10069)
	. (644) 323-4000 (SE Company - Account 10009)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	or mixture
Classification (GHS-US)	
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Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye isSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 16	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	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. 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
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		lenses 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. -P355 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap	sing sician if you fee rst aid instructio cal advice/atter lical advice/atter and wash it befor chemical or alo Keep container Keep cool	el unwell ons on this label) ttion ntion ore reuse cohol-resistant foam to extinguish tightly closed
2.3.	Other hazards				
No addition	nal information available				
2.4. U	Jnknown acute toxicity (GHS US)				
Not applica	able				
SECTIO	N 3: Composition/information of	on ing	gredients		
	Substance				
Substance	type :	Mono-	constituent		
Name			Product identifier	%	Classification (GHS-US)
	entafluorosulfanyl)benzene tuent)		(CAS No) 1063625-86-4	<= 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				
	Mixture				
Not applica					
SECTIO	N 4: First aid measures				
4.1. I	Description of first aid measures				
First-aid m			e of accident or if you feel unwell, seek i possible). Move the affected personnel		
First-aid m	easures after inhalation :		ve person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid m			with plenty of soap and water. Get medi		
First-aid m	easures after eye contact :	Immeo presei	diately flush eyes thoroughly with water t nt and easy to do. Continue rinsing. Get	or at least 15 m medical advice/	inutes. Remove contact lenses, if attention.
First-aid m	easures after ingestion :		OT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
4.2.	Most important symptoms and effects,	both a	icute and delayed		
Symptoms	/injuries :		ost important known symptoms and effend/or in section 11.	cts are describe	ed in the labelling (see section
4.3. I	ndication of any immediate medical att	tentior	and special treatment needed		
Treat symp	otomatically.				
SECTIO	N 5: Firefighting measures				
	Extinguishing media				
			ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2.	Special hazards arising from the substa	ance o	r mixture		
Fire hazard	: k	Therm	al decomposition generates: Carbon ox	des. Hydrogen	fluoride. Sulfur oxides.
Explosion	hazard :		f explosion if heated under confinement ners. May form flammable/explosive vap		ay or fog for cooling exposed
5.3.	Advice for firefighters				
Firefighting	g instructions :	In cas	e of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.
		Wear	gas tight chemically protective clothing i atus. For further information refer to sect	n combination w	vith self contained breathing

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment 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 authoriti	es if product enters sewers or public waters.		
6.3. Methods and material for containme	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 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		
pH	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 71 - 72 °C (@ 81 mm Hg)		
Flash point	: 48 °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	: 1.575 g/ml (@ 22 °C)		
Molecular mass	: 222.15 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 reactivit	ty		

SLOII	on to. Stability and reactivity			
10.1.	Reactivity			
No addit	ional information available			
10.2.	. Chemical stability			
The proc	luct is stable at normal handling and st	orage conditions.		
10.3.	Possibility of hazardous reactions			
No addit	ional information available			
10.4.	Conditions to avoid			
Keep aw	ay from heat, sparks and flame.			
10.5.	Incompatible materials			
Strong o	xidizing agents.			
10.6.	Hazardous decomposition product	ts		
	ormal conditions of storage and use, ha Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of		
SECTI	ON 11: Toxicological informa	tion		
11.1.	Information on toxicological effect	S		
Acute to	xicity	: Not classified		
Skin cor	rosion/irritation	: Causes skin irritation.		
Serious	eye damage/irritation	: Causes serious eye irritation.		

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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

SECTION 12: E	cological information
12.1. Toxicity	
No additional inform	ation available
12.2. Persisten	ice and degradability
No additional inform	ation available
12.3. Bioaccun	nulative potential
No additional inform	ation available
12.4. Mobility i	n soil
No additional inform	ation available
12.5. Other adv	verse effects
No additional inform	ation 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 Symbols

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



- : III Minor Danger
- : 203
- : 242
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 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. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. 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
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)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, 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	studed from listing, on the United States Environmental Protection Agency Taxis

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:

4-Fluoro(pentafluorosulfanyl)benzene CAS No 1063625-86-4 100%	
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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

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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:

I UII LEA	a ur r-pritases.	
	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
	health hazard fire hazard	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 2 - Must be moderately heated or exposed to relatively high
		temperature before ignition can occur.
NFPA I	reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health	-	: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	 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)
Physica	al	: 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.