

Safety Data Sheet 56713X1 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	: 2-Fluorophenylsulfur pentafluoride
CAS No	: 864230-02-4
Product code	: 5671-3-X1
Formula	: C6H4F6S
Synonyms	: 1-Fluoro-2-(pentafluorothio)benzene
Other means of identification	: MFCD18909664
.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
I.3. Details of the supplier of the saf	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 nfo@synquestlabs.com - www.synquestlabs	
.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	or mixture
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i	irritation
Flam. Liq. 3 H226 - Flammable liquid and 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	irritation
Eye Irrit. 2AH319 - Causes serious eye iSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 162.2.Label elements	irritation
Flam. Liq. 3 H226 - Flammable liquid and Skin Irrit. 2 Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye is STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation ny irritation
Flam. Liq. 3 H226 - Flammable liquid and 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)	$\frac{1}{1000}$
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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	lenses, if pro P312 - Call P321 - Spec P332+P313 P337+P313 P362+P364 P370+P378 P403+P235 P403+P235 P405 - Store	 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 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 (G	HS US)			
Not applicable				
SECTION 3: Composition/inf	ormation on ingredi	ents		
3.1. Substance				
Substance type	: Mono-const	ituent		
Name	Proc	luct identifier	%	Classification (GHS-US)
2-Fluorophenylsulfur pentafluoride (Main constituent)		No) 864230-02-4	<= 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			I	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measur	es			
4.1. Description of first aid me				
First-aid measures general	: In case of a	ccident or if you feel unwel ble). Move the affected pe		ce immediately (show the label ne contaminated area.
First-aid measures after inhalation	: Remove per		comfortable for breat	hing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with p	elenty of soap and water. G	et medical advice/at	tention.
First-aid measures after eye contact		flush eyes thoroughly with easy to do. Continue rinsi		5 minutes. Remove contact lenses, if ce/attention.
First-aid measures after ingestion		uce vomiting. Never give a /ith water. Get medical adv		an unconscious person. Rinse
4.2. Most important symptoms	and effects, both acute	and delayed		
Symptoms/injuries		portant known symptoms	and effects are desc	ribed in the labelling (see section
4.3. Indication of any immedia	e medical attention and	special treatment needed	t	
Treat symptomatically.				
SECTION 5: Firefighting mea	sures			
5.1. Extinguishing media				
Suitable extinguishing media		stant foam. Carbon dioxide for surrounding fire.	. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising fro	om the substance or mix	ture		
Fire hazard		composition generates: Ca	rbon oxides. Hydroa	en fluoride. Sulfur oxides.
Explosion hazard	: Risk of expl		nement. Use water s	pray or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In case of fi	re: Evacuate area. Fight fir	e remotely due to the	e risk of explosion.
Protection during firefighting	: Wear gas tig	ght chemically protective cl	othing in combination	n with self contained breathing sure controls/personal protection".

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

SECTION 6: Accidental release meas			
	uipment 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 authorit	ies 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			
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.

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	: 153 - 155 °C (@ 637 mm Hg)	
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	: 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		

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	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.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects	i de la companya de l	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation Respiratory or skin sensitization	: Causes serious eye irritation. : Not classified	

Safety Data Sheet

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

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

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods Waste disposal recommendations	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. 		
Additional information	: Recycle the material as far as possible.		
SECTION 14: Transport informatic	on		

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

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)	 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)	
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	luded from listing on the United States Environmental Protection Agency Toxic

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:

2-Fluorophenylsulfur pentafluoride	CAS No 864230-02-4	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

Safety Data Sheet

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

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 or reprirases.		
	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	
	nealth 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 	
NFPA reactivity		 temperature before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	
HMIS I	II Rating		
Health : 2 Moderate Hazard - Te		: 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)	
		: 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.