

Safety Data Sheet 2815326 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/03/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2-Fluoro-6-(trifluorometh	yl)benzaldehyde	
CAS No	: 60611-24-7		
Product code	: 2815-3-26		
Formula	: C8H4F4O		
Other means of identification	: MFCD00061273		
1.2. Relevant identified uses of the sub	stance or mixture and uses	advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substand Scientific research and d		
1.3. Details of the supplier of the safety	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.com 1.4. Emergency telephone number	<u>ווות</u>		
Emergency number	: (844) 523-4086 (3E Corr	ipany - Account 10069)	
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SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or	mixture		
Classification (GHS-US)			
Full 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)	: H227 - Combustible liqui H315 - Causes skin irrita H319 - Causes serious e H335 - May cause respir	tion ye irritation	
Precautionary statements (GHS-US)	P261 - Avoid breathing fr P264 - Wash skin thorou P271 - Use only outdoor P280 - Wear protective o P302+P352 - If on skin: 1 P304+P340 - If inhaled: P305+P351+P338 - If in lenses, if present and ea P312 - Call a POISON C P321 - Specific treatmen P332+P313 - If skin irrita P337+P313 - If eye irrita P362+P364 - Take off co	neat/sparks/open flames/hot surfaces. No smokin umes, mist, spray, vapors ghly after handling s or in a well-ventilated area loves/protective clothing/eye protection/face prot Wash with plenty of soap and water Remove person to fresh air and keep comfortable eyes: Rinse cautiously with water for several mir sy to do. Continue rinsing ENTER or doctor/physician if you feel unwell t (see supplemental first aid instructions on this la tion occurs: Get medical advice/attention tion persists: Get medical advice/attention portaminated clothing and wash it before reuse fire: Use dry sand, dry chemical or alcohol-resista	tection e for breathing nutes. Remove contact abel)
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	P403+P233 - Store in a well-ventilate P403+P235 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/container	ed place. Keep cool	
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US	)		
Not applicable			
SECTION 3: Composition/information	tion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Fluoro-6-(trifluoromethyl)benzaldehyde	(CAS No) 60611-24-7	<= 100	Flam. Liq. 4, H227
(Main constituent)			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 measures			
4.1. Description of first aid measures			
First-aid measures general	: In case of accident or if you feel unwe where possible). Move the affected p		
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get medical advice/attent		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water.	Get medical advice/a	attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly wi present and easy to do. Continue rins		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth out with water. Get medical ad		o an unconscious person. Rinse
4.2. Most important symptoms and ef	fects, both acute and delayed		
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	s and effects are des	cribed in the labelling (see section
4.3. Indication of any immediate med	ical attention and special treatment neede	ed	
Treat symptomatically.			
SECTION 5: Firefighting measures	3		
5.1. Extinguishing media	, ,		
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxic appropriate for surrounding fire.	le. Dry powder. Wate	er spray. Use extinguishing media
E 2 Special bezards origing from the			
5.2. Special hazards arising from the		arbon ovideo Uudro	zon fluorido
Fire hazard	: Thermal decomposition generates: C		
Explosion hazard	: Risk of explosion if heated under con containers. May form flammable/expl		
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight f	•	•
Protection during firefighting	: Wear gas tight chemically protective apparatus. For further information ref		
SECTION 6: Accidental release mo			
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Er		

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Only qualified personnel equipped with suitable protective equipment may intervene.

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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 author	rities if product enters sewers or public waters.
6.3. Methods and material for contain	ment 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, inclu-	ding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep contents under inert gas.
	· Pafer to Section 10 on Incompatible Materials
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

# **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.

SECT	TION 9: Physical a	and chemical properties
9.1.	Information on bas	sic physical and chemical properties
Physic	al state	: Liquid
Color		: No data available
Odor		: No data available
Odor tl	hreshold	: No data available
pН		: No data available
Melting	g point	: No data available

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Freezing point	: No data available
Boiling point	: 156 °C
Flash point	: 82 °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	: 1.432 g/ml (@ 25 °C)
Molecular mass	: 192.11 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	: 1.458 (@ 20 °C)

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
No additional information available
10.4. Conditions to avoid
Keep away from heat, sparks and flame.
10.5. Incompatible materials
Strong bases. 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 toxico	logical effects

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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SECTION 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 additional information available	
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	S
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	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>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).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
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	
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No additional information available

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### Air transport

## No additional information available

# **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:

2-Fluoro-6-(trifluoromethyl)benzaldehyde CAS No 60611-24-7 100%			
	2-Fluoro-6-(trifluoromethyl)benzaldehyde	CAS No 60611-24-7	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**

2-Fluoro-6-(trifluoromethyl)benzaldehyde (60611-24-7)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 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:

Full tex	t of H-phrases:	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Liq. 4	Flammable liquids Category 4
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H227	Combustible liquid
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA f	nealth hazard ire hazard eactivity	<ul> <li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
HMIS III Rating		
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamma	ability	<ul> <li>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 &amp; IIIA)</li> </ul>
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.