

4-Fluoro-3-(trifluoromethoxy)benzaldehyde

Safety Data Sheet 2615320 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/18/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	
	: 4-Fluoro-3-(trifluoromethoxy)benzaldehyde
CAS No	: 86256-48-6
Product code	: 2615-3-20
Formula	: C8H4F4O2
Other means of identification	: MFCD06660159
1.2. Relevant identified uses of the sub	ostance 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	y 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	om
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	n
2.1. Classification of the substance or	
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit STOT SE 3 H335 - May cause respiratory in 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)	 H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing 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 P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up

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mouth out with water. Get medical advice/a		n unconscious person. Rinse	
a a the actual and a large all			
Soth acute and delayed	4.2. Most important symptoms and effects, both acute and delayed		
The most important known symptoms and 2.2) and/or in section 11.	effects are describ	bed in the labelling (see section	
ention and special treatment needed			
Alcohol resistant foam. Carbon dioxide. Dry appropriate for surrounding fire.	/ powder. Water s	pray. Use extinguishing media	
nce or mixture			
	oxides. Hydrogen	n fluoride.	
•			
-	•	•	
SECTION 6: Accidental release measures			
	adaguata sinus ti	lation. Do not brooth a real function	
Evacuate unnecessary personnel. Ensure a vapor or spray.	adequate air ventil	iation. Do not breathe gas, tumes,	
Only qualified personnel equipped with suit	able protective eq	uipment may intervene.	
		pment. For further information	
	 2.2) and/or in section 11. antion and special treatment needed Alcohol resistant foam. Carbon dioxide. Dry appropriate for surrounding fire. nce or mixture Thermal decomposition generates: Carbon Risk of explosion if heated under confinem containers. May form flammable/explosive n case of fire: Evacuate area. Fight fire rer Wear gas tight chemically protective clothir apparatus. For further information refer to second and emergency procedures Evacuate unnecessary personnel. Ensure a vapor or spray. Dnly qualified personnel equipped with suitable containers to take action without suitable. 	Alcohol resistant foam. Carbon dioxide. Dry powder. Water s appropriate for surrounding fire. nce or mixture Thermal decomposition generates: Carbon oxides. Hydroger Risk of explosion if heated under confinement. Use water spic containers. May form flammable/explosive vapor-air mixture. n case of fire: Evacuate area. Fight fire remotely due to the n Wear gas tight chemically protective clothing in combination apparatus. For further information refer to section 8: "Exposu es ment and emergency procedures Evacuate unnecessary personnel. Ensure adequate air venti	

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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 authorities 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. Air sensitive. Keep contents under inert gas.	
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

9.1.	Information on basic	physical and chemical properties
Physical	state	: Liquid
Color		: No data available
Odor		: No data available
Odor three	eshold	: No data available
pН		: No data available
Melting p	oint	: No data available
Freezing	point	: No data available
Boiling p	oint	: No data available
Flash po	int	: No data available

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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	· 000 11 m/m al
Molecular mass	: 208.11 g/mol
Solubility	: No data available
	5
Solubility	: No data available
Solubility Log Pow	: No data available : No data available
Solubility Log Pow Auto-ignition temperature	: No data available : No data available : No data available
Solubility Log Pow Auto-ignition temperature Decomposition temperature	 No data available
Solubility Log Pow Auto-ignition temperature Decomposition temperature Viscosity	 No data available

9.2. **Other information**

No additional information available

SECTIO	ON 10: Stability and reactivity	
10.1.	Reactivity	
No additional information available		
10.2.	Chemical stability	
The prod	duct is stable at normal handling and storage conditions.	
10.3.	Possibility of hazardous reactions	
No additi	ional information available	
10.4.	Conditions to avoid	
No additi	ional information available	
10.5.	Incompatible materials	
Strong ox	xidizing 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		

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

SECTION 12: Ecological information			
12.1. Toxicity			
No additional information available			
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12.2.	Persistence and degradability		
No additional information available			
12.3.	Bioaccumulative potential		
No addit	ional information available		
12.4.	Mobility in soil		
No additional information available			
12.5.	Other adverse effects		
No addit	ional information 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 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 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:

4-Fluoro-3-(trifluoromethoxy)benzaldehyde	CAS No 86256-48-6	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

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

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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	
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is 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	: 1 Slight Hazard - Irritation or minor reversible injury possible	
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.