

3-Fluorobenzaldehyde Safety Data Sheet 2615303 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/27/2017 Version: 1.0

Substance name : CAS No : Product code : Formula : Other means of identification : 1.2. Relevant identified uses of the substance/mixture Use of the substance/mixture : 1.3. Details of the supplier of the safety data SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T T (386) 462-0788 - F (386) 462-7097 : info@synquestlabs.com • www.synquestlabs.com 1.4. Emergency telephone number	: (844) 523-4086 (3E Company - Account 10069) xture our
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-	
Hazard pictograms (GHS-US) :	
	GHS02 GHS07
Signal word (GHS-US) :	: Warning
Hazard statements (GHS-US) :	 H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US) :	 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge 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 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

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	lenses, if present and easy to do. Cont P312 - Call a POISON CENTER or doo P321 - Specific treatment (see suppler P332+P313 - If skin irritation occurs: G P362+P364 - Take off contaminated cl P370+P378 - In case of fire: Use dry sa P403+P233 - Store in a well-ventilated P403+P235 - Store in a well-ventilated P405 - Store locked up P501 - Dispose of contents/container to	ctor/physician if you nental first aid instru iet medical advice/at Get medical advice/a othing and wash it b and, dry chemical or place. Keep cool	ctions on this label) ttention attention efore reuse ralcohol-resistant foam to extinguish her tightly closed
2.3. Other hazards No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substance			
	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
3-Fluorobenzaldehyde (Main constituent)	(CAS No) 456-48-4	<= 100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Full text of H-phrases: see section 16			STOT SE 3, H335
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
	: In case of accident or if you feel unwell where possible). Move the affected per		
First-aid measures after inhalation	: Remove person to fresh air and keep or respiration. Get medical advice/attention		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water. G	et medical advice/at	itention.
,	: Immediately flush eyes thoroughly with present and easy to do. Continue rinsir	ng. Get medical advi	ce/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give a mouth out with water. Get medical adv		an unconscious person. Rinse
4.2. Most important symptoms and effects	· · · · · · · · · · · · · · · · · · ·		
Symptoms/injuries	: The most important known symptoms a 2.2) and/or in section 11.	and effects are desc	ribed in the labelling (see section
	attention and special treatment needed	ł	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	. Dry powder. Water	r spray. Use extinguishing media
5.2. Special hazards arising from the subs	tance or mixture		
	: Thermal decomposition generates: Ca		
Explosion hazard	: Risk of explosion if heated under confin containers. May form flammable/explose		
5.3. Advice for firefighters			
	. In some office, Exercise and Eightfin	a ramataly due to the	o rick of ovalocion
	: In case of fire: Evacuate area. Fight fire : Wear gas tight chemically protective cl	•	•

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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equ		
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 authoritie	es if product enters sewers or public waters.	
6.3. Methods and material for containment	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	g 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.

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SECTIO	N 9: Physical and chemical	properties	
	nformation on basic physical and		
Physical st		: Liquid	
Color		: No data available	
Odor		: No data available	
Odor thres	hold	: No data available	
эΗ		: No data available	
Melting poi	int	: No data available	
Freezing po	oint	: No data available	
Boiling poir	nt	: 56 - 58 °C (@ 10 mm Hg)	
-lash point		: 56 °C	
Relative ev	aporation rate (butyl acetate=1)	: No data available	
lammabili	ty (solid, gas)	: No data available	
Explosion I	limits	: No data available	
Explosive p	properties	: No data available	
Oxidizing p	properties	: No data available	
/apor pres		: No data available	
Relative de	ensity	: No data available	
Relative va	apor density at 20 °C	: No data available	
	avity / density	: 1.17 g/ml (@ 25 °C)	
Molecular r	mass	: 124.11 g/mol	
Solubility		: No data available	
_og Pow		: No data available	
Auto-ignitic	on temperature	: No data available	
Decompos	ition temperature	: No data available	
/iscosity		: No data available	
√iscosity, k	kinematic	: No data available	
/iscosity, c	dynamic	: No data available	
9.2. 0	Other information		
Refractive	index	: 1.518 (@ 20 °C)	
SECTIO	N 10: Stability and reactivit	У	
10.1. F	Reactivity		
No additior	nal information available		
10.2. C	Chemical stability		
	ct is stable at normal handling and s	orage conditions.	
•	Possibility of hazardous reactions	•	
	nal information available		
	Conditions to avoid		
	r from heat, sparks and flame.		
10.5. I	ncompatible materials		
	ses. Strong oxidizing agents. Strong	reducing agents.	
Strong bas			
-	Hazardous decomposition produc	ts	
IO.6. H Jnder norm	nal conditions of storage and use, h		be produced. Hazardous decomposition products in case
10.6. H Under norm ire, see Se	nal conditions of storage and use, h	azardous decomposition products should not	be produced. Hazardous decomposition products in case
10.6. F Under norm fire, see Se SECTIO	nal conditions of storage and use, h ection 5.	azardous decomposition products should not	be produced. Hazardous decomposition products in case
IO.6. F Jnder norm ire, see Se SECTIO	nal conditions of storage and use, h ection 5. N 11: Toxicological informa nformation on toxicological effect	azardous decomposition products should not	be produced. Hazardous decomposition products in case
10.6. H Jnder norm ire, see Se SECTIO I 11.1. I Acute toxic I	nal conditions of storage and use, h ection 5. N 11: Toxicological informa nformation on toxicological effect	azardous decomposition products should not tion s : Not classified	be produced. Hazardous decomposition products in case
10.6. Image: Constraint of the sector of	nal conditions of storage and use, h ection 5. N 11: Toxicological informa nformation on toxicological effect	azardous decomposition products should not tion s	be produced. Hazardous decomposition products in case

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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

SECT	ION 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 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	
3-Fluorobenzaldehyde (456-48-4)	
Listed on the United States TSCA (Toxic Substances C	ontrol Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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.

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15.2. International regulations

CANADA

3-Fluorobenzaldehyde (456-48-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

3-Fluorobenzaldehyde (456-48-4)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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

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	
NFPA fire hazard NFPA reactivity	 residual injury even though prompt medical attention was given. 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur. 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 : 2 Moderate Hazard - Materials which must be moderately heated or exposed to temperatures before ignition will occur. Includes liquids having a flash point at o but below 200 F. (Classes II & IIIA)		
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire condition react with water, polymerize, decompose, condense, or self-react. Non-Explosiv		

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.