

# **4-Bromo-3-fluorobenzaldehyde** Safety Data Sheet 2615B43 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 4-Bromo-3-fluorobenzaldehy	de	
CAS No : 133059-43-5			
Product code : 2615-B-43			
Formula	: C7H4BrFO		
Other means of identification	: MFCD03095000		
1.2. Relevant identified uses of the sub	stance or mixture and uses adv	sed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and devel	opment	
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	<u>m</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compan	/ - Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or r	nixture		
Classification (GHS-US)			
Acute Tox. 4 (Oral)H302 - Harmful if swallowSkin Irrit. 2H315 - Causes skin irritaEye Irrit. 2AH319 - Causes serious eSTOT SE 3H335 - May cause respinFull text of H-phrases: see section 16	tion eye irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye in H335 - May cause respirator		
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, P264 - Wash skin thoroughly P270 - Do not eat, drink or sr P271 - Use only outdoors or P280 - Wear protective glove P301+P312 - If swallowed: C P302+P352 - If on skin: Was P304+P340 - If inhaled: Rem P305+P351+P338 - If in eyes lenses, if present and easy to P312 - Call a POISON CENT P321 - Specific treatment (se P330 - Rinse mouth P332+P313 - If skin irritation</li> </ul>	mist, spray after handling noke when using this product n a well-ventilated area s/protective clothing/eye protection/face protectio all a POISON CENTER or doctor/ physician if you with plenty of soap and water ove person to fresh air and keep comfortable for t crimes cautiously with water for several minutes.	ı feel unwell preathing

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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
- P501 Dispose of contents/container to an approved waste disposal plant

#### 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**

Substance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
4-Bromo-3-fluorobenzaldehyde (Main constituent)		(CAS No) 133059-43-5	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personne		
First-aid measures after inhalation		ove person to fresh air and keep comfor ration. Get immediate medical advice/at		ing. If not breathing, give artificial
First-aid measures after skin contact	: Wash	n with plenty of soap and water. Get imn	nediate medical	advice/attention.
First-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Ge		
First-aid measures after ingestion		OT induce vomiting. Never give anythin h out with water. Get immediate medica		
4.2. Most important symptoms and ef	fects, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and ef and/or in section 11.	fects are descril	bed in the labelling (see section
4.3. Indication of any immediate med	ical attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures	6			
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	oowder. Water s	spray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon o	xides. Hydrogei	n bromide. Hydrogen fluoride.
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective clothing ratus. For further information refer to se		
SECTION 6: Accidental release me	easures			
6.1. Personal precautions, protective	equipment	and emergency procedures		
General measures	: Evac	uate unnecessary personnel. Ensure ac	lequate air vent	ilation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suital	ole protective ed	quipment may intervene.

refer to section 8: "Exposure controls/personal protection".

### 6.1.2. For emergency responders

10/16/2017

: Do not attempt to take action without suitable protective equipment. For further information

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6.2. Environmental precautions	Environmental precautions		
Avoid release to the environment. Notify authorities 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.		
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.		
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			
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 dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.		
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. Keep contents under inert gas.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator		
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	d chemical properties	
Physical state	: Solid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: 55 - 59 °C	
Freezing point	: No data available	
Boiling point	: No data available	
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	

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Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 203.01 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

#### **Other information** 9.2.

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 informat 11.1. Information on toxicological effects	
Acute toxicity	: Oral: Harmful if swallowed.
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

SECTIO	DN 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	tions	
13.1. Waste treatment methods		
Waste treatment methods Waste disposal recommendations Additional information	<ul> <li>Remove to an authorized incinerator equipped with</li> <li>Dispose of contents/container in accordance with I</li> <li>Recycle the material as far as possible.</li> </ul>	0
SECTION 14: Transport information	on	
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 informa	tion	
15.1. US Federal regulations		
All components of this product are listed, or Substances Control Act (TSCA) inventory	r excluded from listing, on the United States Environmenta except for:	I Protection Agency Toxic
4-Bromo-3-fluorobenzaldehyde	CAS No 133059-43-5	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 tex	t of H-phrases:		
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	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
	H302		Harmful if swallowed
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
NFPA f	nealth hazard ire hazard eactivity	residual injury even though prompt medical attention was given. rd : 1 - Must be preheated before ignition can occur.	
HMIS II	I Rating		
Health		: 3 Serious Hazard - Majo given	or injury likely unless prompt action is taken and medical treatment is
Flamma	ability	<ul> <li>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)</li> </ul>	
Physica	al		rials that are normally stable, even under fire conditions, and will NOT ize, 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.