

3-Bromo-6-chloro-2-fluorobenzonitrile

Safety Data Sheet 3637F02 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/25/2020 Version: 1.0

SECTION 1: Identification					
1.1. Identification					
Product form	: Substance				
Substance name	: 3-Bromo-6-chloro-2-fluorob	enzonitrile			
CAS No	: 943830-79-3				
Product code	: 3637-F-02				
	: C7H2BrCIFN				
ormula					
other means of identification	: MFCD11846056				
.2. Relevant identified uses of the sub		vised against			
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and deve	slopment			
I.3. Details of the supplier of the safety	data sheet				
SynQuest Laboratories, Inc.					
P.O. Box 309 Alachua, FL 32615 - United States of America Γ (386) 462-0788 - F (386) 462-7097 nfo@synguestlabs.com - www.synguestlabs.com	m				
.4. Emergency telephone number					
Emergency number	: (844) 523-4086 (3E Compa	nv - Account 10069)			
<i>.</i> .					
ECTION 2: Hazard(s) identification					
.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 respinStull toxt of H phrases: ace paction 16	tion ye irritation				
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)	: H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye H335 - May cause respirato	n irritation			
Precautionary statements (GHS-US)	 P261 - Avoid breathing dus P264 - Wash skin thorough P270 - Do not eat, drink or s P271 - Use only outdoors o P280 - Wear protective glov P301+P312 - If swallowed: P302+P352 - If on skin: Wa P304+P340 - If inhaled: Rei P305+P351+P338 - If in ey lenses, if present and easy P312 - Call a POISON CEN P321 - Specific treatment (s P330 - Rinse mouth P332+P313 - If skin irritation 	, mist, spray y after handling moke when using this product r in a well-ventilated area es/protective clothing/eye protection/face protectio Call a POISON CENTER or doctor/ physician if you sh with plenty of soap and water nove person to fresh air and keep comfortable for l es: Rinse cautiously with water for several minutes.	u feel unwell breathing . Remove contact		

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	P362+P364 - Take off contaminated P403+P233 - Store in a well-ventila P405 - Store locked up P501 - Dispose of contents/containe	ted place. Keep containe	er tightly closed		
2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS US))				
Not applicable					
SECTION 3: Composition/informat	tion on ingredients				
3.1. Substance					
Substance type	: Mono-constituent				
Name	Product identifier	%	Classification (GHS-US)		
3-Bromo-6-chloro-2-fluorobenzonitrile (Main constituent)	(CAS No) 943830-79-3	<= 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	: In case of accident or if you feel un where possible). Move the affected				
First-aid measures after inhalation	alation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.				
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.				
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.				
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.				
4.2. Most important symptoms and effects, both acute and delayed					
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.				
4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefighting measures	8				
5.1. Extinguishing media					
Suitable extinguishing media	: Alcohol resistant foam. Carbon diox appropriate for surrounding fire.	ide. Dry powder. Water	spray. Use extinguishing media		
5.2. Special hazards arising from the	substance or mixture				
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides.				
5.3. Advice for firefighters					
Firefighting instructions	: In case of fire: Evacuate area.				
Protection during firefighting	 Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection". 				
SECTION 6: Accidental release me	easures				
6.1. Personal precautions, protective	equipment and emergency procedures				
Seneral measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.					
6.1.1. For non-emergency personnel	non-emergency personnel ocedures : 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".		
6.2.	Environmental precautions			
Avoid re	elease to the environment. Notify auth	orities if product enters sewers or public waters.		
6.3.	Methods and material for contain	iment and cleaning up		
For con	tainment	: Stop leak if safe to do so.		
Method	s for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.		
Other in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4.	Reference to other sections			
No addi	tional information available			
SECT	ION 7: Handling and storage			
7.1.	Precautions for safe handling			
Precaut	ions 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	e 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, incl	uding any incompatibilities		
Technic	al measures	: Comply with applicable regulations.		
Storage	conditions	: Keep container closed when not in use.		
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	che	mical properties
Physical state		:	Solid
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		:	No data available
Flash point		:	No data available
Relative evaporation ra	te (butyl acetate=1)	:	No data available
Flammability (solid, gas	5)	:	No data available
Explosion limits		:	No data available
Explosive properties		:	No data available

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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	: 234.453 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 addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	bases. Strong oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

SECTION 11:	Toxicological	l information

Information on toxicological effects 11.1.

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	No additional information available					
12.2.	Persistence and degradability					
No additi	onal information available					
12.3.	Bioaccumulative potential					
No additional 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 consideration	S		
13.1. Waste treatment methods	Demonstration	and a strength for the surface of the strength of the	(a - da
Waste treatment methods			n an afterburner and a flue gas scrubber.
Waste disposal recommendations Additional information			icensed collector's sorting instructions.
Additional information	. Recycle the mai	terial 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 exc Substances Control Act (TSCA) inventory except		on the United States Environmenta	Protection Agency Toxic
3-Bromo-6-chloro-2-fluorobenzonitrile		CAS No 943830-79-3	100%
This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting required and 40 CFR Part 372.			
15.2. International regulations			
15.2. International regulations CANADA No additional information available			
CANADA			

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
given. NFPA fire hazard : 1 - Must be preheated before		residual injury even thoug given.1 - Must be preheated bel0 - Normally stable, even	h prompt medical attention was fore ignition can occur. under fire exposure conditions,
HMIS II	I Rating		
Health		: 3 Serious Hazard - Majo given	or injury likely unless prompt action is taken and medical treatment is
Flamma	ability	: 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)	
Physica	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will N 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.