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2-Bromo-3-chloro-6-fluorobenzonitrile

Safety Data Sheet 3637F08 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	: 2-Bromo-3-chloro-6-fluc	robenzonitrile	
CAS No	: 1823576-81-3		
Product code	: 3637-F-08		
Formula	: C7H2BrCIFN		
Other means of identification	: MFCD28141935		
1.2. Relevant identified uses of the su	bstance or mixture and uses	advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substan Scientific research and		
1.3. Details of the supplier of the safe	ty 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. 1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Cor	npany - Account 10069)	
	() ()		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance of	· mixture		
Classification (GHS-US)			
Acute Tox. 4 (Oral)H302 - Harmful if swallSkin Irrit. 2H315 - Causes skin irriEye Irrit. 2AH319 - Causes seriousSTOT SE 3H335 - May cause respFull text of H-phrases: see section 16	tation 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 swallo H315 - Causes skin irrit H319 - Causes serious H335 - May cause respi	ation eye irritation	
Precautionary statements (GHS-US)	 P261 - Avoid breathing P264 - Wash skin thoro P270 - Do not eat, drink P271 - Use only outdoo P280 - Wear protective P301+P312 - If swallow P302+P352 - If on skin: P304+P340 - If inhaled: P305+P351+P338 - If ir lenses, if present and eat P312 - Call a POISON (P321 - Specific treatme P330 - Rinse mouth P332+P313 - If skin irrit 	dust, mist, spray	u feel unwell breathing . Remove contact
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2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS US Not applicable		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		
2.4. Unknown acute toxicity (GHS US				
Not applicable)			
SECTION 3: Composition/informa	tion on i	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Bromo-3-chloro-6-fluorobenzonitrile (Main constituent)		(CAS No) 1823576-81-3	<= 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		ase of accident or if you feel unwell, seek re possible). Move the affected personnel		
First-aid measures after inhalation	: 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 ef	fects, both	acute and delayed		
Symptoms/injuries		most important known symptoms and effe and/or in section 11.	ects are descrit	bed in the labelling (see section
4.3. Indication of any immediate med	ical attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures	:			
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard	: The	rmal decomposition generates: Carbon ox rogen fluoride. Nitrogen oxides.	ides. Hydroger	n bromide. Hydrogen chloride.
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				
6.1. Personal precautions, protective General measures		t and emergency procedures cuate unnecessary personnel. Ensure add	auate air venti	lation. Do not breathe dust
	. Eva	cuate unnecessary personnel. Ensure add	Equale all venti	
6.1.1. For non-emergency personnel Emergency procedures	: Only	v qualified personnel equipped with suitab	le protective ec	uipment may intervene.

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6.1.2.	For emergency responders	
Protecti	ve 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	norities if product enters sewers or public waters.
6.3.	Methods and material for contain	nment 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 ir	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addi	itional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	tions 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	cal measures	: Comply with applicable regulations.
Storage	e conditions	: Keep container closed when not in use.
Incomp	atible 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	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: 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 rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: 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

SECTIO	ON 10: Stability and reactivity
10.1.	Reactivity
No additi	ional 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
Keep aw	ay from heat, sparks and flame.
10.5.	Incompatible materials
Strong ba	ases. Strong oxidizing agents.
10.6.	Hazardous decomposition products
	ormal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of Section 5.

SECTION 11:	Toxicological	information

11.1. Information on toxicological effects

Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	Causes skin irritation.Causes serious eye irritation.Not classified
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTIO	DN 12: Ecological information			
12.1.	Toxicity			
12.1.	TOXICITY			
No additi	onal 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 considerat	tions
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	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 informat	tion
15.1. US Federal regulations	
All components of this product are listed, or Substances Control Act (TSCA) inventory e	r excluded from listing, on the United States Environmental Protection Agency Toxic except for:
2-Bromo-3-chloro-6-fluorobenzonitrile	CAS No 1823576-81-3 100%
	toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 quirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986
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:		
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 health hazard Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 		
HMIS III Rating		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
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.