

Safety Data Sheet 1600F32 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/20/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-Bromo-3-chloro-2-fluorobenzene
CAS No	: 144584-65-6
Product code	: 1600-F-32
Formula	: C6H3BrCIF
Other means of identification	: MFCD03412182
1.2. Relevant identified uses of the s	ubstance 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 safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance c	
Classification (GHS-US)	
Full text of H-phrases: see section 16 2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	CH507
Signal word (GHS-US)	GHS07 : Warning
Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
o	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation

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2.3. Other hazards		-		
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
lot applicable				
SECTION 3: Composition/informat	ion on in	gredients		
.1. Substance		-		
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
1-Bromo-3-chloro-2-fluorobenzene (Main constituent)		(CAS No) 144584-65-6	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16				,
3.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures				
irst-aid measures general		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid measures after inhalation		ve person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid measures after skin contact	: Wash	with plenty of soap and water. Get medi	cal advice/atten	tion.
irst-aid measures after eye contact		diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get		
irst-aid measures after ingestion		OT induce vomiting. Never give anything out with water. Get medical advice/atter		unconscious person. Rinse
I.2. Most important symptoms and eff	ects, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	cts are describe	ed in the labelling (see section
4.3. Indication of any immediate medi	cal attentio	n and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the s	substance o	or mixture		
ire hazard		nal decomposition generates: Carbon ox gen fluoride.	des. Hydrogen	bromide. Hydrogen chloride.
5.3. Advice for firefighters				
Firefighting instructions	: In cas	e of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective clothing in atus. For further information refer to sect		
SECTION 6: Accidental release me	asures			
.1. Personal precautions, protective		and emergency procedures		
General measures		ate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel Emergency procedures	: Only o	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
6.1.2. For emergency responders				
Protective equipment		t attempt to take action without suitable o section 8: "Exposure controls/personal		ment. For further information
5.2. Environmental precautions				
		uct enters sewers or public waters.		

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6.3. Methods and material for containment 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 section	ns	
No additional information available		
SECTION 7: Handling and s	torage	
7.1. Precautions for safe han	dling	
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 stora	ge, including any incompatibilities	
Technical 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	I chemical properties
Physical state	: Solid
Appearance	: Low melting solid.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 43 °C
Freezing point	: No data available
Boiling point	: 88 - 92 °C (@ 24 mm Hg)
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
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available

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Molecular mass	: 209.44 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 additional information available			
10.2.	Chemical stability		
The pro	duct is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
No additional information available			
10.4.	Conditions to avoid		
Keep away from heat, sparks and flame.			
10.5.	Incompatible materials		
Strong	oxidizing agents.		
10.6.	Hazardous decomposition products		
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of		

age э, 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 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		

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	ons	
13.1. Waste treatment methods		
Waste treatment methods Waste disposal recommendations Additional information	Remove to an authorized incinerator equipped witDispose of contents/container in accordance withRecycle the material as far as possible.	5
SECTION 14: Transport informatic	n	
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		
	excluded from listing, on the United States Environmenta	al Protection Agency Toxic
Substances Control Act (TSCA) inventory ex 1-Bromo-3-chloro-2-fluorobenzene	CAS No 144584-65-6	100%
	oxic chemical or chemicals in excess of the applicable de uirements of section 313 of Title III of the Superfund Ame	
15.2. International regulations		
CANADA No additional information available		
EU-Regulations No additional information available		
National regulations		
1-Bromo-3-chloro-2-fluorobenzene (1445	*	
Listed on the TCSI (Taiwan Chemical Subst	ance Inventory)	
15.3. US State regulations		
•	es not contain any substances known to the state of Cali	fornia to cause cancer
SECTION 16: Other information		

SECTION 16: Other information

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

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 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	: 2 Moderate Hazard - Temporary or minor injury may occur
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.