

1-Bromo-2-fluoro-4-iodobenzene

Safety Data Sheet 1600U24 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/03/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	- Orderterer
Product form	: Substance
Substance name	: 1-Bromo-2-fluoro-4-iodobenzene
CAS No	: 136434-77-0
Product code	: 1600-U-24
Formula	: C6H3BrFI
Other means of identification	: MFCD00042577
1.2. Relevant identified uses of the subs	stance 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 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 Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or n	nixture
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrita STOT SE 3 H335 - May cause respiratory in 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)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray 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 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention 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

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2.3. Other hazards					
No additional information availa					
2.4. Unknown acute toxi	icity (GHS US)				
Not applicable					
SECTION 3: Composition	on/information on in	ngredients			
3.1. Substance					
Substance type	: Mon	o-constituent			
Name		Product identifier	%	Classification (GHS-US)	
1-Bromo-2-fluoro-4-iodobenzene (Main constituent)		(CAS No) 136434-77-0	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	
Full text of H-phrases: see sect	tion 16		I		
3.2. Mixture					
Not applicable					
SECTION 4: First aid mo	easures				
4.1. Description of first a	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 inhalat	resp	nove person to fresh air and keep comfortation. Get medical advice/attention.			
First-aid measures after skin co		h with plenty of soap and water. Get med			
First-aid measures after eye co	pres	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	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 medical advice/attention.			
4.2. Most important sym	Nost important symptoms and effects, both acute and delayed				
	: The	most important known symptoms and effe	ects are describe	ed in the labelling (see section	
Symptoms/injuries	: The 2.2)	most important known symptoms and effe	ects are describe	ed in the labelling (see section	
Symptoms/injuries 4.3. Indication of any im	: The 2.2)	most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section	
Symptoms/injuries 4.3. Indication of any im Treat symptomatically.	: The 2.2) mediate medical attentio	most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section	
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Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3.	. Methods and material for containment and cleaning up			
For cor	ntainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Method	ls for cleaning up	: Minimize generation of dust. 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 in	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4.	Reference to other sections			
No add	itional information available			
SECT	ION 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, fumes, mist, spray, vapors. 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, include	ng 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 temperature	: 2 - 8 °C Use explosion proof refrigerator	
Storage area	Store in dry, well-ventilated area. Light sensitive.	

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	: 37 - 38 °C
Freezing point	: No data available
Boiling point	: 80 °C (@ 2.5 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

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 300.89 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

SECTION 10: Stability and reactivity				
10.1.	Reactivity			
No additional information available				
10.2.	Chemical stability			
The produ	ict is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions			
No additio	onal information available			
10.4.	Conditions to avoid			
Keep awa	y from heat, sparks and flame.			
10.5.	Incompatible materials			
Strong oxidizing agents.				
10.6.	Hazardous decomposition products			
Under nor fire, see S	mal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of Section 5.			

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

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	litional information available
12.2.	Persistence and degradability
No add	litional 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 consider	ations		
13.1. Waste treatment methods			
Waste treatment methods Waste disposal recommendations Additional information	: Dispose of cont		with an afterburner and a flue gas scrubber. th licensed collector's sorting instructions.
SECTION 14: Transport informa	tion		
Department of Transportation (DOT) In accordance with DOT Not regulated for transport TDG No additional information available			
Fransport by sea			
Air transport No additional information available			
SECTION 15: Regulatory inform	ation		
15.1. US Federal regulations			
All components of this product are listed, Substances Control Act (TSCA) inventory		on the United States Environme	ntal Protection Agency Toxic
1-Bromo-2-fluoro-4-iodobenzene	·	CAS No 136434-77-0	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

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.
NFPA reactivity	: 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.