

Safety Data Sheet 1600U35 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	
Product form	: Substance
Substance name	: 1-Bromo-3,5-difluoro-4-iodobenzene
CAS No	: 160976-02-3
Product code	: 1600-U-35
Formula	: C6H2BrF2I
Other means of identification	: MFCD01861126
1.2. Relevant identified uses of the sub	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 - www.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 r	nixture
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritaSTOT SE 3H335 - May cause respiratory irr	
Full text of H-phrases: see section 16	
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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)	<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact</li> <li>lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>

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2.3. Other hazards				
lo additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informat	ion on i	ngredients		
3.1. Substance				
Substance type	: Mor	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
1-Bromo-3,5-difluoro-4-iodobenzene (Main constituent)		(CAS No) 160976-02-3	<= 100	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, see		
		re possible). Move the affected personn	-	
First-aid measures after inhalation		nove person to fresh air and keep comfo iration. Get medical advice/attention.	nable for breath	ing. If not preathing, give artificial
First-aid measures after skin contact	: Was	sh with plenty of soap and water. Get me	edical advice/att	ention.
First-aid measures after eye contact		ediately flush eyes thoroughly with wate		
	•	ent and easy to do. Continue rinsing. G		
First-aid measures after ingestion	mou	NOT induce vomiting. Never give anythin th out with water. Get medical advice/at		an unconscious person. Rinse
4.2. Most important symptoms and eff			<i>и</i>	
Symptoms/injuries		most important known symptoms and e and/or in section 11.	effects are descr	ibed in the labelling (see section
4.3. Indication of any immediate medie	cal attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ohol resistant foam. Carbon dioxide. Dry ropriate for surrounding fire.	powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard		rmal decomposition generates: Carbon rogen iodide.	oxides. Hydroge	en bromide. Hydrogen fluoride.
5.3. Advice for firefighters				
Firefighting instructions		ase of fire: Evacuate area.		
	: Wea	ar gas tight chemically protective clothing		
	app	aratus. For further information refer to se	ection 8: "Expos	sure controls/personal protection".
Protection during firefighting		aratus. For further information refer to se	ection 8: "Expos	ure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release me	asures		ection 8: "Expos	ure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release me 6.1. Personal precautions, protective of	asures equipmen : Eva			
Protection during firefighting SECTION 6: Accidental release me 6.1. Personal precautions, protective of General measures	asures equipmen : Eva	t and emergency procedures cuate unnecessary personnel. Ensure a		
Protection during firefighting SECTION 6: Accidental release me 6.1. Personal precautions, protective of General measures 6.1.1. For non-emergency personnel	asures equipmen : Eva brea	t and emergency procedures cuate unnecessary personnel. Ensure a	Idequate air ven	tilation. Do not breathe dust. Do not
Protection during firefighting SECTION 6: Accidental release me 6.1. Personal precautions, protective of General measures	asures equipmen : Eva brea	t and emergency procedures cuate unnecessary personnel. Ensure a tthe gas, fumes, vapor or spray.	Idequate air ven	tilation. Do not breathe dust. Do not

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3.	Methods and material for containme	nt 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	
Precau	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, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygien	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, including	ng any incompatibilities
Technie	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.

<b>SECTION 8: Exposure controls/</b>	personal	protection

### 8.1. Control parameters

Storage temperature

Storage area

No additional information available

: 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.
: Protective gloves. 29 CFR 1910.138: Hand Protection.
: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
: Wear suitable protective clothing.
: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
: Safety shoes. 29 CFR 1910.136: Foot Protection.

: 2 - 8 °C Use explosion proof refrigerator

: Store in dry, well-ventilated area. Light sensitive.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical an	d 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	: 41 - 42 °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
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	: 318.89 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	
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#### No additional information available

SECT	ION 10: Stability and reactivity
SECI	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
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e 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 addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No odd	itianal information qualitable

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

13.1. Waste treatment methods	_		
Waste treatment methods		authorized incinerator equipped with a	_
Waste disposal recommendations	•	ntents/container in accordance with lice	nsed collector's sorting instructions.
Additional information	: Recycle the m	aterial as far as possible.	
SECTION 14: Transport informa	tion		
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 inform	ation		
15.1. US Federal regulations			
All components of this product are listed. Substances Control Act (TSCA) inventor		on the United States Environmental P	rotection Agency Toxic
1-Bromo-3,5-difluoro-4-iodobenzene	•	CAS No 160976-02-3	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	<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>
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.