

Safety Data Sheet 1700B0L according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1.1. Identification	
Product form	: Substance
Substance name	: 2-Bromo-6-fluorobenzal fluoride
CAS No	: 1166820-46-7
Product code	: 1700-B-0L
Formula	: C7H4BrF3
Synonyms	: 1-Bromo-2-(difluoromethyl)-3-fluorobenzene
1.2. Relevant identified uses of the	e substance 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 sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	<u>bs.com</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identifica	ition
2.1. Classification of the substance	
Classification (GHS-US)	
	s serious eye irritation
· · · · · · · · · · · · · · · · · · ·	ause respiratory irritation
Full text of H-phrases: see section 16 2.2. Label elements	ause respiratory irritation
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	
Full text of H-phrases: see section 16	ause respiratory irritation
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: GHS07
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	: GHS07 : Warning : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	<ul> <li>Warning</li> <li>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation</li> <li>P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell 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)</li> </ul>

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	P337 P362 P403 P405	<ul> <li>+P313 - If skin irritation occurs: Get med</li> <li>+P313 - If eye irritation persists: Get med</li> <li>+P364 - Take off contaminated clothing a</li> <li>+P233 - Store in a well-ventilated place.</li> <li>- Store locked up</li> <li>- Dispose of contents/container to an ap</li> </ul>	dical advice/atte and wash it bef Keep containe	ention ore reuse r tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	5)			
Not applicable				
SECTION 3: Composition/informa	ition on in	gredients		
3.1. Substance				
Substance type	: Mono	constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Bromo-6-fluorobenzal fluoride (Main constituent)		(CAS No) 1166820-46-7	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 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		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comfort ation. Get immediate medical advice/atte		ng. If not breathing, give artificial
First-aid measures after skin contact		with plenty of soap and water. Get imm		
First-aid measures after eye contact		diately flush eyes thoroughly with water int and easy to do. Continue rinsing. Get		
First-aid measures after ingestion	: Do No mout	OT induce vomiting. Never give anything n out with water. Get immediate medical	by mouth to an advice/attention	n unconscious person. Rinse n.
4.2. Most important symptoms and e	ffects, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describ	bed in the labelling (see section
4.3. Indication of any immediate med	lical attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measure	S			
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the	substance of	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon ox	ides. Hydroger	n bromide. Hydrogen fluoride.
Explosion hazard		of explosion if heated under confinement iners.	. Use water spi	ray or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions Protection during firefighting	: Wear	se of fire: Evacuate area. Fight fire remoting a stight chemically protective clothing i ratus. For further information refer to sec	n combination	with self contained breathing
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective	equipment	and emergency procedures		
General measures		uate unnecessary personnel. Ensure ade or spray.	equate air venti	lation. Do not breathe gas, fumes,

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6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	

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

6.3. Methods and material for containm	8. Methods and material for containment and cleaning up			
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.			
Methods for cleaning up	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 information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".			
6.4. Reference to other sections				
No additional information available				
SECTION 7. Handling and storage				

SECTION 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 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, including	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 area	: Store in dry, cool, well-ventilated area.			

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SECTION O. EX	posure 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.

SECT	ION 9: Physical	l and chemical properties
9.1.	Information on ba	asic physical and chemical properties
Physica	al state	: Liquid
Color		: No data available
Odor		: No data available
Odor th	reshold	: No data available
pН		: No data available
Melting	point	: No data available
Freezin	g point	: No data available
Boiling	point	: No data available

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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
Molecular mass	: 225.01 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

NIa additional information available

No add	tional 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	acids. 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 information**

#### Information on toxicological effects 11.1.

Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
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

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SECT	ION 12: Ecological information		
12.1.	Toxicity		
No additional information available			
12.2.	Persistence and degradability		
No add	itional information available		
12.3.	Bioaccumulative potential		
No add	itional information available		
12.4.	Mobility in soil		
No add	itional information available		
12.5.	Other adverse effects		
No add	itional information available		

SECTION 13: Disposal considerations				
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.			

#### **Department of Transportation (DOT)**

**SECTION 14: Transport information** 

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 excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

2-Bromo-6-fluorobenzal fluoride	CAS No 1166820-46-7	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

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### SECTION 16: Other information

	Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Inhalation)		Acute toxicity (inhalation) Category 4
	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
	H312		Harmful in contact with skin
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H332		Harmful if inhaled
	H335		May cause respiratory irritation
FPA	health hazard		cause serious temporary or gh prompt medical attention was
FPA fire hazard		: 1 - Must be preheated be	efore ignition can occur.
IFPA	reactivity	: 0 - Normally stable, even and are not reactive with	under fire exposure conditions, 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.