

**3-Bromo-5-fluorobenzyl bromide** Safety Data Sheet 1700B80 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/07/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3-Bromo-5-fluorobenzyl bromide
CAS No	: 216755-57-6
Product code	: 1700-B-80
Formula	: C7H5Br2F
Other means of identification	: MFCD09258959
1.2. Relevant identified uses of the substa	ance 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 d	ata 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	
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 mi	xture
Classification (GHS-US)	
Eye Dam. 1 H318 - Causes serious eye dam STOT SE 3 H335 - May cause respiratory irr Full text of H-phrases: see section 16	
2.2. Label elements GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS05 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe dust, mist, 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>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</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 lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a POISON CENTER or doctor/ physician</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P4054-P339 - 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			
Other hazards not contributing to the classification :	Lachrymator.		
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
<b>SECTION 3: Composition/information</b>	on ingredients		
3.1. Substance			
Substance type :	Mono-constituent		
Name	Product identifier		assification (GHS-US)
3-Bromo-5-fluorobenzyl bromide (Main constituent)	(CAS No) 216755-57-6	Eye	in Corr. 1B, H314 e Dam. 1, H318 OT 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 :	In case of accident or if you feel unwell, seek where possible). Move the affected personnel		
First-aid measures after inhalation :	Remove person to fresh air and keep comfort respiration. Get immediate medical advice/atte		not breathing, give artificial
First-aid measures after skin contact	Wash with plenty of soap and water. Remove medical advice/attention.	contaminated clothin	ng and shoes. Get immediate
First-aid measures after eye contact	Immediately flush eyes thoroughly with water present and easy to do. Continue rinsing. Get		
First-aid measures after ingestion :	Do NOT induce vomiting. Never give anything mouth out with water. Get immediate medical		onscious person. Rinse
4.2. Most important symptoms and effects	both acute and delayed		
Symptoms/injuries :	The most important known symptoms and efference 2.2) and/or in section 11.	cts are described in	the labelling (see section
Symptoms/injuries after inhalation :	Material is destructive to tissue of the mucuou shortness of breath, headache, nausea.	s membranes and u	pper respiratory tract. Cough,
4.3. Indication of any immediate medical a	tention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media :	Alcohol resistant foam. Carbon dioxide. Dry pr appropriate for surrounding fire.	owder. Water spray.	Use extinguishing media
5.2. Special hazards arising from the subs	ance or mixture		
Fire hazard :	Thermal decomposition generates: Carbon ox	des. Hydrogen bron	nide. Hydrogen fluoride.
Explosion hazard :	When mixed with air and exposed to an ignitic explode if confined.	n source, dust may	burn in the open air or
5.3. Advice for firefighters			
Firefighting instructions :	In case of fire: Evacuate area. Fight fire remote	ely due to the risk of	explosion.
Protection during firefighting :	Wear gas tight chemically protective clothing i apparatus. For further information refer to see		
SECTION 6: Accidental release measu	res		
6.1. Personal precautions, protective equi			
General measures :	Evacuate unnecessary personnel. Ensure add	quate air ventilation	. Do not breathe dust.
6.1.1. For non-emergency personnel Emergency procedures :	Only qualified personnel equipped with suitab	e protective equipm	ent may intervene.

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6.1.2. For	emergency responders	
Protective equ	uipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency p	rocedures	: Avoid raising dust. When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. Eliminate every possible source of ignition.
6.2. Env	vironmental precautions	
Avoid release	to the environment. Notify autho	rities if product enters sewers or public waters.
6.3. Met	thods and material for containr	nent and cleaning up
For containme	ent	: Stop leak if safe to do so.
Methods for c	leaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other informa	tion	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Ref	erence to other sections	
No additional	information available	
SECTION	7: Handling and storage	
7.1. Pre	cautions for safe handling	
Additional haz	zards when processed	: When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.
Precautions for	or 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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
Hygiene mea	sures	: 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. Cor	nditions for safe storage, inclue	ling any incompatibilities
Technical me	asures	: Comply with applicable regulations.
Storage cond	itions	: Keep container closed when not in use. Keep away from ignition sources.
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.

<b>SECTION 9: Physical and chemical properties</b>
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9.1. I	nformation on basic physical and ch	emical properties		
Physical st	ate	: Solid		
Color		: No data available		
Odor		: No data available		
Odor thres	hold	: No data available		
рН		: No data available		
Melting poi	nt	: No data available		
Freezing p	pint	: No data available		
Boiling poir	nt	: No data available		
Flash point		: 106 °C		
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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	: 267.92 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Deserve estition to set un	
Decomposition temperature	: No data available
Viscosity	: No data available : No data available
Viscosity	: No data available

#### 9.2. **Other information**

No additional information available		
SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
No addi	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	tional information available	
10.4.	Conditions to avoid	
Keep av	way from heat, sparks and flame.	
10.5.	Incompatible materials	
Strong I	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.	

SECTIO	TION 11: Toxicological information	
11.1.	Information on toxicological effects	

Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Causes serious eye damage.	
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	
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.	

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SECT	SECTION 12: Ecological information			
12.1.	Toxicity			
No addi	ional information available			
12.2.	Persistence and degradability			
No addi	ional information available			
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No addi	ional information available			
12.5.	Other adverse effects			
No addit	ional 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.		

### **SECTION 14: Transport information**

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

In accordance with DOT Transport document description

#### UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)
- DOT Symbols
- DOT Special Provisions (49 CFR 172.102)

- : UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III
- : UN3261
- : Corrosive solid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name
- IB8 Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).
  IP3 Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.
  - T1 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154 DOT Quantity Limitations Passenger aircraft/rail : 25 kg (49 CFR 173.27)

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
ſDG	
No additional information available	
Fransport by sea	
UN-No. (IMDG)	: 3261
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	

UN-No. (IATA)	: 3261
Proper Shipping Name (IATA) : Corrosive solid, acidic, organ	
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

### **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:

3-bronno-5-hadrobenzyi bronnae CAS No 210735-37-0 100 %		CAS No 216755-57-6	100%
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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 Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
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.