

Safety Data Sheet 1800B75 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/12/2016 Version: 1.0

Substance name : 2-Bromo CAS No : 40161-53 Product code : 1800-B-7 Formula : C7H3Brf Synonyms : 1-Bromo Other means of identification : MFCDOO 1.2. Relevant identified uses of the substance or min Use of the substance/mixture : Laborator Manufac Scientific 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 1.4. Emergency telephone number Emergency number : (844) 52: SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Flam. Liq. 4 H227 - Combustible liquid Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory 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) Hazard statements (GHS-US)	5-fluorobenzotrifluoride -5 5 4 4-fluoro-2-(trifluoromethyl)benzene; 2-Bromo-alpha,alpha,alpha,5-tetrafluorotoluene 040937
Product form : Substance Substance name : 2-Bromo CAS No : 40161-52 Product code : 1800-B-7 Formula : C7H3Brf Synonyms : 1-Bromo Other means of identification : MFCDOO 1.2. Relevant identified uses of the substance or mi Use of the substance/mixture : Laborator Manufac Scientific 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 1.4. Emergency telephone number Emergency number : (844) 52 SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Flam. Liq. 4 H227 - Combustible liquid Skin Irrit. 2 H315 - Causes skin irritation STOT SE 3 H335 - May cause respiratory irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) : Warning Hazard statements (GHS-US)	5-fluorobenzotrifluoride -5 -4 4-fluoro-2-(trifluoromethyl)benzene; 2-Bromo-alpha,alpha,alpha,5-tetrafluorotoluene -040937 ture and uses advised against y chemicals ure of substances research and development
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	ombustible liquid auses skin irritation auses serious eye irritation ay cause respiratory irritation
P261 - A P264 - W P271 - U P280 - W P302+P3 P304+P3 P305+P3 lenses, ii P312 - C P321 - S P332+P3 P332+P3	ep away from heat/sparks/open flames/hot surfaces. No smoking oid breathing fumes, mist, spray, vapors ash skin thoroughly after handling e only outdoors or in a well-ventilated area ear protective gloves/protective clothing/eye protection/face protection
12/06/2016 EN (English	 bit bit of the give service and many service protocol in the protocol

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P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extin P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant		r tightly closed	
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS U	S)		
Not applicable			
SECTION 3: Composition/information	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Bromo-5-fluorobenzotrifluoride (Main constituent)	(CAS No) 40161-55-5	<= 100	Flam. Liq. 4, H227 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 measure			
First-aid measures general	where possible). Move the af	eel unwell, seek medical advice fected personnel away from the	contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.		
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.		
First-aid measures after eye contact	 Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse 		
First-aid measures after ingestion	: Do NOT induce vomiting. Ne mouth out with water. Get me		n unconscious person. Rinse
4.2. Most important symptoms and e			
Symptoms/injuries	: The most important known sy 2.2) and/or in section 11.	ymptoms and effects are describ	bed in the labelling (see section
4.3. Indication of any immediate med Treat symptomatically.	dical attention and special treatment	nt needed	
SECTION 5: Firefighting measure	2S		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbo appropriate for surrounding fi	on dioxide. Dry powder. Water s ire.	pray. Use extinguishing media
5.2. Special hazards arising from the	e substance or mixture		
Fire hazard	: Thermal decomposition gene	erates: Carbon oxides. Hydroger	n bromide. Hydrogen fluoride.
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.		
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area	a. Fight fire remotely due to the r	risk of explosion.
Protection during firefighting		otective clothing in combination ation refer to section 8: "Exposu	with self contained breathing ire controls/personal protection".
SECTION 6: Accidental release m	neasures		
6.1. Personal precautions, protective	e equipment and emergency proce	dures	
General measures	: Evacuate unnecessary perso vapor or spray.	nnel. Ensure adequate air venti	ilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equi	ipped with suitable protective eq	quipment may intervene.
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6.1.2. F	or 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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.	
6.2. E	invironmental precautions		
Avoid relea	se to the environment. Notify authorities	if product enters sewers or public waters.	
6.3. N	lethods and material for containment	and cleaning up	
For contain	ment :	Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
Methods for	r 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 inforr	mation :	For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4. R	Reference to other sections		
No addition	al information available		
SECTION	N 7: Handling and storage		
7.1. P	Precautions for safe handling		
Precautions	s 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 me	easures :	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. C	Conditions for safe storage, including	any incompatibilities	
Technical n	neasures :	Comply with applicable regulations.	
Storage cor	nditions :	Keep container closed when not in use.	
Incompatibl	le materials :	Refer to Section 10 on Incompatible Materials.	
Storage are	ea :	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.

SECT	ION 9: Physical a	nd chemical properties
9.1.	Information on basi	c physical and chemical properties
Physica	l state	: Liquid
Color		: No data available
Odor		: No data available
Odor the	reshold	: No data available
рН		: No data available
Melting	point	: No data available
Freezing	g point	: No data available
Boiling p	point	: 136 °C
Flash po	oint	: 63 °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
Specific gravity / density	: 1.72 g/ml (@ 20 °C)
Molecular mass	: 243 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	

Refractive index

: 1.465 (@ 20 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product 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 normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of 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

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

SECTION 13: Disposal consideration	15
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	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
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.
TDG	
No additional information available	
Transport by sea No additional information available	

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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-5-fluorobenzotrifluoride CAS No 40161-55-5 100%			
			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:

Full lext of H-philases.		
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 4	Flammable liquids Category 4	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H227	Combustible liquid	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.		
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature 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	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) 	
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.