

Safety Data Sheet 1800B57 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/12/2016 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 4-Bromo-2-fluorobenzotrifluoride	
CAS No	: 142808-15-9	
Product code	: 1800-B-57	
Formula	: C7H3BrF4	
Synonyms	: 4-Bromo-2-fluoro-1-(trifluoromethyl)	benzene
Other means of identification	: MFCD01075254	
1.2. Relevant identified uses of the su	stance or mixture and uses advised a	gainst
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and developmen	ıt
1.3. Details of the supplier of the safet	y 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>om</u>	
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Acc	ount 10069)
SECTION 2: Hazard(s) identificatio	ı	
2.1. Classification of the substance or		
Classification (GHS-US)		
Flam. Liq. 4H227 - Combustible liquidSkin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irriSTOT SE 3H335 - May cause respiratory iFull text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)		
Signal word (GHS LIS)	GHS07	
Signal word (GHS-US) Hazard statements (GHS-US)	<ul> <li>Warning</li> <li>H227 - Combustible liquid</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritati</li> </ul>	
Precautionary statements (GHS-US)	P210 - Keep away from heat/sparks P261 - Avoid breathing fumes, mist, P264 - Wash skin thoroughly after h P271 - Use only outdoors or in a we P280 - Wear protective gloves/prote P302+P352 - If on skin: Wash with g P304+P340 - If inhaled: Remove pe P305+P351+P338 - If in eyes: Rinse lenses, if present and easy to do. C P312 - Call a POISON CENTER or	s/open flames/hot surfaces. No smoking , spray, vapors handling ell-ventilated area ective clothing/eye protection/face protection plenty of soap and water erson to fresh air and keep comfortable for breathing e cautiously with water for several minutes. Remove contact ontinue rinsing doctor/physician if you feel unwell olemental first aid instructions on this label) s: Get medical advice/attention
12/06/2016	EN (English US)	SDS ID: 1800B57 Page 1

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

- P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish 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

#### 2.3. Other hazards

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
4-Bromo-2-fluorobenzotrifluoride (Main constituent)	(CAS No) 142808-15-9	<= 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		l.	1
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measure	es		
First-aid measures general	: In case of accident or if you feel u where possible). Move the affected		
First-aid measures after inhalation	: Remove person to fresh air and k respiration. Get medical advice/a		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and wa		
First-aid measures after eye contact	present and easy to do. Continue	rinsing. Get medical adv	
First-aid measures after ingestion	: Do NOT induce vomiting. Never of mouth out with water. Get medicated		an unconscious person. Rinse
4.2. Most important symptoms and	effects, both acute and delayed		
Symptoms/injuries	: The most important known sympt 2.2) and/or in section 11.	oms and effects are des	cribed in the labelling (see section
4.3. Indication of any immediate me	edical attention and special treatment ne	eded	
Treat symptomatically.			
<b>SECTION 5: Firefighting measur</b>	es		
	es		
5.1. Extinguishing media	: Alcohol resistant foam. Carbon di appropriate for surrounding fire.	oxide. Dry powder. Wate	r spray. Use extinguishing media
5.1. Extinguishing media Suitable extinguishing media	: Alcohol resistant foam. Carbon di appropriate for surrounding fire.	oxide. Dry powder. Wate	r spray. Use extinguishing media
<ul> <li>5.1. Extinguishing media</li> <li>Suitable extinguishing media</li> <li>5.2. Special hazards arising from the</li> </ul>	: Alcohol resistant foam. Carbon di appropriate for surrounding fire.		
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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations 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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition. **Environmental precautions** 6.2. Avoid release to the environment. Notify authorities if product enters sewers or public waters. Methods and material for containment and cleaning up 6.3. 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. : For disposal of solid materials or residues refer to section 13 : "Disposal considerations". Other information 6.4. **Reference to other sections** No additional information available **SECTION 7: Handling and storage** Precautions for safe handling 7.1. 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. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or Hygiene measures smoke when using this product. Always wash hands after handling the product. 7.2. Conditions for safe storage, including 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.

# **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. I	nformation on basic physical and ch	lei	nical properties
Physical st	ate	:	Liquid
Color		:	No data available
Odor		:	No data available
Odor thres	hold	:	No data available
pН		:	No data available
Melting poi	int	:	No data available
Freezing p	oint	:	No data available
Boiling poi	nt	:	No data available
Flash point	t	:	87 °C

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

	-	,
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 (@ 25 °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

#### Other information 9.2.

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional 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	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.
SECT	ION 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

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

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 additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional 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	: 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
<b>3 3 ( )</b>	: 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)	<ul> <li>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).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
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

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

### 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 Substa s Control Act (TSCA) inventory except for

Substances Control Act (13CA) Inventory exception.		
4-Bromo-2-fluorobenzotrifluoride	CAS No 142808-15-9	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:

ruii text of n-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.