

4-Fluoro-3-(trifluoromethyl)benzyl bromide Safety Data Sheet 1800B43 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/08/2015 Version: 1.0

CECTION 4. Identification	
SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-Fluoro-3-(trifluoromethyl)benzyl bromide
CAS No	: 184970-26-1
Product code	: 1800-B-43
Formula	: C8H5BrF4
Other means of identification	: MFCD00061177
1.2. Relevant identified uses of the subs	tance 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 of	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>n</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 m	ixture
Classification (GHS-US)	
Skin Corr. 1BH314 - Causes severe skin burnEye Dam. 1H318 - Causes serious eye danSTOT SE 3H335 - May cause respiratory inSultant of Lipstein and serious and ser	nage
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)	 P260 - Do not breathe dust, fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower 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 P310 - Immediately call a POISON CENTER or doctor/ physician P321 - Specific treatment (see supplemental first aid instructions on this label) P363 - Wash contaminated clothing before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant

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2.3. Other hazards			
Other hazards not contributing to the lassification	: Lachrymator.		
.4. Unknown acute toxicity (GHS US)			
lot applicable			
SECTION 3: Composition/informati	ion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
4-Fluoro-3-(trifluoromethyl)benzyl bromide (Main constituent)	(CAS No) 184970-26-1	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16		I	
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
I.1. Description of first aid measures			
First-aid measures general	: In case of accident or if you feel un where possible). Move the affected		
irst-aid measures after inhalation	: Remove person to fresh air and kee respiration. Get immediate medical		hing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water medical advice/attention.	. Remove contaminate	d clothing and shoes. Get immediate
irst-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 immediate medical advice/attention.	
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and eff			
Symptoms/injuries	: The most important known symptor 2.2) and/or in section 11.		
Symptoms/injuries after inhalation	: Material is destructive to tissue of the shortness of breath, headache, nau		s and upper respiratory tract. Cough,
4.3. Indication of any immediate medic	cal attention and special treatment nee	ded	
Freat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon diox appropriate for surrounding fire.	ide. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the s	substance or mixture		
Fire hazard	: Thermal decomposition generates:	Carbon oxides. Hydrog	en bromide. Hydrogen fluoride.
Explosion hazard	: Risk of explosion if heated under co containers. May form flammable/ex		
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Figh	fire remotely due to the	e risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective apparatus. For further information r		
SECTION 6: Accidental release me			
	equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. I vapor or spray.	Ensure adequate air ver	ntilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped	dah sudashta () (

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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.
6.2. Environmental precautions	
Avoid release to the environment. Notify author	ities if product enters sewers or public waters.
6.3. Methods and material for containm	nent 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	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
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, includ	ling any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	

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. Information on basic physical and chemical properties		
Physical state	· Liquid	

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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
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 257.02 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	: 1.4815 (@ 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 bases. 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 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
12/06/2016	EN (English US) SDS ID: 1

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Symptoms/injuries after inhalation

: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional 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
SECT	ION 13: Disposal considerations
13.1.	Waste treatment methods

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 Trans	portation (DOT)
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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)	: III - Minor Danger		
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203		
DOT Packaging Bulk (49 CFR 173.xxx)	: 241		
DOT Symbols	: G - Identifies PSN requiring a tech	nical name	
DOT Special Provisions (49 CFR 172.102)	 (31HZ1 and 31HA2, 31HB2, 31HB with a vapor pressure less than or C (1.3 bar at 131 F) are authorized for UN2672). T7 - 4 178.274(d)(2) Normal TP1 - The maximum degree of filling = 97 / 1 during transport, and tf is the temp TP28 - A portable tank having a m provided the calculated test press 	, 31B and 31N); Rigid plastics (31H1 and 31H2); Compo I2, 31HD2 and 31HH2). Additional Requirement: Only li equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa d, except for UN2672 (also see Special Provision IP8 in 178.275(d)(3) ng must not exceed the degree of filling determined by th + a (tr - tf) Where: tr is the maximum mean bulk tempera verature in degrees celsius of the liquid during filling. inimum test pressure of 2.65 bar (265 kPa) may be used ure is 2.65 bar or less based on the MAWP of the hazard this subchapter, where the test pressure is 1.5 times the	quids at 55 Table he ature d dous
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L		
12/06/2016	EN (English US)	SDS ID: 1800B43	5/7

: UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III

- : UN3265
- : Corrosive liquid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



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DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"	
Other information	: No supplementary information available.	
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	: 3265	
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	
Class (IMDG)	: 8 - Corrosive substances	
Packing group (IMDG)	: III - substances presenting low danger	
Air transport		
UN-No. (IATA)	: 3265	
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.	
Class (IATA)	: 8 - Corrosives	
Packing group (IATA)	: III - Minor Danger	

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:

	4-Fluoro-3-(trifluoromethyl)benzyl bromide	CAS No 184970-26-1	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:

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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	 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.