

Safety Data Sheet 1700B40

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	: 2-Fluoro-4-methylbenzyl bromide
CAS No	: 118745-63-4
Product code	: 1700-B-40
Formula	: C8H8BrF
Synonyms	: 1-(Bromomethyl)-2-fluoro-4-methylbenzene
Other means of identification	: MFCD03094327
1.2. Relevant identified uses of the s	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 sat	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	
Classification (CHS US)	
Classification (GHS-US)Skin Corr. 1BH314 - Causes severe skirEye Dam. 1H318 - Causes serious eyeSTOT SE 3H335 - May cause respirat	e damage
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	CHS05 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>P204 - P3240 - If inbalad: Remove person to fresh air and keep comfortable for breatbing</li> </ul>

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 classification	: Lachrymator.			
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
<b>SECTION 3: Composition/information</b>	n on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	Product identi		%	Classification (GHS-US)
2-Fluoro-4-methylbenzyl bromide (Main constituent)	(CAS No) 118745-	63-4	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 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		f you feel unwell, seek the affected personnel		immediately (show the label contaminated area.
First-aid measures after inhalation	: Remove person to free respiration. Get immed	h air and keep comforta liate medical advice/atte	able for breathir ention.	ng. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of so medical advice/attention		contaminated c	lothing and shoes. Get immediate
First-aid measures after eye contact		thoroughly with water . Continue rinsing. Get		ninutes. Remove contact lenses, if lical advice/attention.
First-aid measures after ingestion		ng. Never give anything Get immediate medical		unconscious person. Rinse n.
4.2. Most important symptoms and effe	ts, both acute and delay	ed		
Symptoms/injuries	: The most important kn 2.2) and/or in section 1		ects are describe	ed in the labelling (see section
Symptoms/injuries after inhalation	: Material is destructive shortness of breath, he		s membranes a	nd upper respiratory tract. Cough,
4.3. Indication of any immediate medica	attention and special tre	eatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistant foam appropriate for surrour		owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the su	stance or mixture			
Fire hazard	: Thermal decompositio	n generates: Carbon ox	ides. Hydrogen	bromide. Hydrogen fluoride.
Explosion hazard	: When mixed with air a explode if confined.	nd exposed to an ignitic	n source, dust r	may burn in the open air or
5.3. Advice for firefighters				
Firefighting instructions	: In case of fire: Evacua	te area. Fight fire remot	ely due to the ri	sk of explosion.
Protection during firefighting				vith self contained breathing e controls/personal protection".
SECTION 6: Accidental release mea	sures			
6.1. Personal precautions, protective ed	uipment and emergency	procedures		
General measures	: Evacuate unnecessary	personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only qualified personn	el equipped with suitabl	e protective equ	uipment may intervene.

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6.1.2.	For emergency responders	
Protectiv	e equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerger	cy procedures :	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.	Environmental precautions	
Avoid rel	ease to the environment. Notify authorities	if product enters sewers or public waters.
6.3.	Methods and material for containment	and cleaning up
For conta	ainment :	Stop leak if safe to do so.
Methods	for cleaning up :	Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other inf	ormation :	For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No additi	ional information available	
SECTI	ON 7: Handling and storage	
	ON 7. Handling and Storage	
7.1.	Precautions for safe handling	
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7.1. Additiona	Precautions for safe handling	
7.1. Additiona Precautio	Precautions for safe handling al hazards when processed :	explode if confined. 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
7.1. Additiona Precautio	Precautions for safe handling al hazards when processed : ons for safe handling :	<ul> <li>explode if confined.</li> <li>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.</li> <li>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.</li> </ul>
<ul><li>7.1.</li><li>Additional</li><li>Precaution</li><li>Hygiene</li><li>7.2.</li></ul>	Precautions for safe handling         al hazards when processed       :         ons for safe handling       :         measures       :         Conditions for safe storage, including	<ul> <li>explode if confined.</li> <li>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.</li> <li>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.</li> </ul>
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#### **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. Information on b	asic physical and chemical properties		
Physical state	: Solid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 97 - 101 °C (@ 15 mm Hg)		
Flash point	: No data available		
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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	: 203.05 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	

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Refractive index

: 1.5465 (@ 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

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	ON 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No addi	tional 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	
Transport 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

ON-NO. (IATA)	. 5201
Proper Shipping Name (IATA)	: Corrosive solid, acidic, organic, n.o.s.
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:

	2-Fluoro-4-methylbenzyl bromide	CAS No 118745-63-4	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.