

# **1-Bromo-1-(4-fluorophenyl)ethane** Safety Data Sheet 1700B95 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/28/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-Bromo-1-(4-fluorophenyl)ethane
CAS No	: 65130-46-3
Product code	: 1700-B-95
Formula	: C8H8BrF
Synonyms Other means of identification	: 1-(4-Fluorophenyl)ethyl bromide; 4-Fluoro-alpha-methylbenzyl bromide : MFCD11180274
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 da	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	L
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
	at wa
2.1. Classification of the substance or mix	xture
Classification (GHS-US)	
Acute Tox. 3 (Dermal)H311 - Toxic in contaAcute Tox. 3 (Inhalation)H331 - Toxic if inhaleSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause res	rritation us eye irritation
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GH506 GH507 GH507
Signal word (GHS-US)	: Danger
÷ , ,	<ul> <li>Bunger</li> <li>Bunger</li> <li>H227 - Combustible liquid</li> <li>H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - If swallowed: Immediately call a poison center/doctor/</li> <li>P3004 P252 - If surface protective gloves/protective for and under</li> </ul>
	P302+P352 - If on skin: Wash with plenty of soap and water 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

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	lenses, if present and easy to do. Co P311 - Call a POISON CENTER or d P312 - Call a POISON CENTER or d P321 - Specific treatment (see supple P330 - Rinse mouth P332+P313 - If skin irritation occurs: P337+P313 - If eye irritation persists P361 - Take off immediately all conta P362+P364 - Take off contaminated P363 - Wash contaminated clothing I P370+P378 - In case of fire: Use dry P403+P233 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/container	loctor/physician loctor/physician if you emental first aid instru Get medical advice/at : Get medical advice/a aminated clothing clothing and wash it b before reuse sand, dry chemical or ed place. Keep cool	actions on this label) ttention attention before reuse r alcohol-resistant foam to extinguish her tightly closed
2.3. Other hazards			
No additional information available 2.4. Unknown acute toxicity (GHS US)			
Not applicable			
	on on ingrediente		
SECTION 3: Composition/informati 3.1. Substance	on on ingredients		
3.1. Substance Substance type	: Mono-constituent		
••		0/	
Name 1-Bromo-1-(4-fluorophenyl)ethane	(CAS No) 65130-46-3	<b>%</b> <= 100	Classification (GHS-US) Flam. Lig. 4, H227
(Main constituent)			Acute Tox. 3 (Dermal), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 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 measures			
First-aid measures general	: In case of accident or if you feel unwo where possible). Move the affected p	ersonnel away from the	he contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get immediate medical a	dvice/attention.	
First-aid measures after skin contact	: Wash with plenty of soap and water.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get immediate medical advice/attention.		nedical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth out with water. Get immediate		
4.2. Most important symptoms and effe			9 1 1 1 1 1 1 1 2 · · ·
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	s and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate medic	al attention and special treatment need	ed	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxic appropriate for surrounding fire.	de. Dry powder. Water	r spray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance or mixture		
Fire hazard	: Thermal decomposition generates: C	arbon oxides. Hydrog	en bromide. Hydrogen fluoride.
Explosion hazard	: Risk of explosion if heated under con containers. May form flammable/expl		

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5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.		
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing		
	apparatus. For further information refer to section 8: "Exposure controls/personal protection".		
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
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 authorit	ties if product enters sewers or public waters.		
6.3. Methods and material for containme	ent 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	: Handle empty containers with care because residual vapors are flammable.		
	<ul> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>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.</li> </ul>		
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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		
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	: 75 - 78 °C (@ 1 mm Hg)		
Flash point	: 76 °C		
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	: 1.5 g/ml (@ 25 °C)		
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			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and sto	rage 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			
	zardous decomposition products should not be produced. Hazardous decomposition products in case of		
SECTION 11: Toxicological information	ion		
11.1. Information on toxicological effects			
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.		

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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

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

#### UN-No.(DOT)

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

: UN2810 Toxic, liquids, organic, n.o.s., 6.1, III

#### : UN2810

- : Toxic, liquids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132

#### : 6.1 - Poison



Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name

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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). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	153
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.
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)	:	2810
Proper Shipping Name (IMDG)	:	TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	:	6.1 - Toxic substances
Packing group (IMDG)	:	III - substances presenting low danger
Air transport		
UN-No. (IATA)	:	2810
Proper Shipping Name (IATA)	:	Toxic liquid, organic, n.o.s.
Class (IATA)	:	6.1 - Toxic Substances
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:

1-Bromo-1-(4-fluorophenyl)ethane	CAS No 65130-46-3	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

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#### **SECTION 16: Other information**

Full tex	t of H-phrases:			
	Acute Tox. 3 (Dermal)		Acute toxicity (dermal) Category 3	
	Acute Tox. 3 (Inhalation)		Acute toxicity (inhalation) Category 3	
	Acute Tox. 3 (Oral)		Acute toxicity (oral) Category 3	
	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	
	H301		Toxic if swallowed	
	H311		Toxic in contact with skin	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	H331		Toxic if inhaled	
	H335		May cause respiratory irritation	
residual injury even thoug			cause serious temporary or gh prompt medical attention was	
<sup>o</sup>		: 1 - Must be preheated be	fore ignition can occur.	
NFPA reactivity : 0 - Normally stable, even		I I	under fire exposure conditions,	
HMIS I	II Rating			
Health : 3 Serious Hazard - Majo given			or injury likely unless prompt action is taken and medical treatment is	
Flamm			als that must be preheated before ignition will occur. Includes liquids, aving a flash point above 200 F. (Class IIIB)	
			erials that are normally stable, even under fire conditions, and will NOT rize, 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.