

4-Chloro-3,5-difluorobenzyl bromide

Safety Data Sheet 1700F18

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/05/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-Chloro-3,5-difluorobenzyl bromide
CAS No	: 1400991-56-1
Product code	: 1700-F-18
Formula	: C7H4BrCIF2
Synonyms	: 5-(Bromomethyl)-2-chloro-1,3-difluorobenzene
Other means of identification	: MFCD23795325
1.2. Relevant identified uses of the	e 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 s	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ame T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestla	<u>bs.com</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identifica	tion
2.1. Classification of the substance	
2.1. Classification of the substance	
Classification (GHS-US)Skin Corr. 1BH314 - Causes severe skEye Dam. 1H318 - Causes serious erSTOT SE 3H335 - May cause respiraFull text of H-phrases: see section 16	ye damage
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	CHS05 CHS07
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 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 contrib	uting to the : L	achrymator.			
classification					
	e toxicity (GHS US)				
Not applicable					
SECTION 3: Compo	osition/information or	n ingredients			
3.1. Substance					
Substance type	: N	Aono-constituent			
Name		Product identifier	%	Classification (GHS-US)	
4-Chloro-3,5-difluorobenzyl	bromide	(CAS No) 1400991-56-1	<= 100	Skin Corr. 1B, H314	
(Main constituent)				Eye Dam. 1, H318	
Full text of H-phrases: se	e section 16			STOT SE 3, H335	
3.2. Mixture					
Not applicable					
SECTION 4: First a	id moasures				
	first aid measures			in modification (show the list of	
First-aid measures gener		n case of accident or if you feel unwell, se where possible). Move the affected person			
First-aid measures after in		Remove person to fresh air and keep comf			
		espiration. Get immediate medical advice/		.g	
First-aid measures after s		Vash with plenty of soap and water. Remonetical advice/attention.	ve contaminated c	clothing and shoes. Get immedia	ite
First-aid measures after e		mmediately flush eyes thoroughly with water seven the sevent the sevent the sevent the seven the sevent the seven the seven th			, if
First-aid measures after in	ngestion : D	Do NOT induce vomiting. Never give anyth	ing by mouth to an	unconscious person. Rinse	
	ſſ	nouth out with water. Get immediate medi	cal advice/attention	٦.	
4.2. Most importan	t symptoms and effects, b	oth acute and delayed			
Symptoms/injuries		The most important known symptoms and 2.2) and/or in section 11.	effects are describ	ed in the labelling (see section	
Symptoms/injuries after in		laterial is destructive to tissue of the much hortness of breath, headache, nausea.	uous membranes a	and upper respiratory tract. Coug	βh,
4.3. Indication of a	ny immediate medical atte	ntion and special treatment needed			
Treat symptomatically.					
SECTION 5: Firefig	hting measures				
5.1. Extinguishing					
Suitable extinguishing me		Alcohol resistant foam. Carbon dioxide. Dr	v powder. Water sr	oray. Use extinguishing media	
5 5	а	ppropriate for surrounding fire.			
	Is arising from the substar				
Explosion hazard		Risk of explosion if heated under confinem containers.	ent. Use water spra	ay or fog for cooling exposed	
5.3. Advice for fire	fighters				
Firefighting instructions	: Ir	n case of fire: Evacuate area. Fight fire rer	notely due to the ri	isk of explosion.	
Protection during firefight		Vear gas tight chemically protective clothin			
	а	apparatus. For further information refer to s	section 8: "Exposui	re controls/personal protection".	
SECTION 6: Accide	ental release measure	es			
		ent and emergency procedures			
General measures	: E	Evacuate unnecessary personnel. Ensure rapor or spray.	adequate air ventil	ation. Do not breathe gas, fume	S,
6.1.1. For non-emerg	gency personnel				
Emergency procedures	: C	Only qualified personnel equipped with suit	able protective equ	uipment may intervene.	
612 Ect amotors	w recommendare				
6.1.2. For emergency) o not attempt to take action without avital		ment For further information	
Protective equipment		Do not attempt to take action without suital efer to section 8: "Exposure controls/perso			
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Emerge	ncy procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions	

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for contain	ment 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	
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.
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	ng any incompatibilities
Techni	cal measures	: Comply with applicable regulations.
Storage	e conditions	: Keep container closed when not in use.
Incomp	atible materials	: Refer to Section 10 on Incompatible Materials.
Storage	e 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.	Information on basic physical and	chemical properties
Physica	I state	: Liquid
Color		: No data available
Odor		: No data available
Odor the	reshold	: No data available
pН		: No data available
Melting	point	: No data available
Freezing	g point	: No data available
Boiling	point	: No data available
Flash p	oint	: No data available
Relative	e evaporation rate (butyl acetate=1)	: No data available
Flamma	ability (solid, gas)	: No data available
Explosio	on limits	: No data available
Explosiv	ve properties	: No data available

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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	: 241.46 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

SECT	FION 10: Stability and reactivity
10.1.	Reactivity
No add	litional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	litional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
Inder	normal conditions of storage and use bazardous decomposition products should not be produced. Hazardous decomposition products in case of

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

Information on toxicological effects 11.1.

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.

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available

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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 consideration	ns
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	: UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
UN-No.(DOT)	: UN3265
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, organic, n.o.s.
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
	8
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 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, 31HD2, 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)	: 154

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
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

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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

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:

	4-Chloro-3,5-difluorobenzyl bromide	CAS No 1400991-56-1	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:

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

NFPA health hazard

NFPA fire hazard NFPA reactivity : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

- : 1 Must be preheated before ignition can occur.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.

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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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.