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1-(4-Bromo-2-fluorobenzyl)pyrrolidine

Safety Data Sheet 3H32B42 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/21/2019 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
		. Alexandri di e	
Substance name	: 1-(4-Bromo-2-fluoroben:	yi)pyrrollaine	
CAS No	: 283173-83-1		
Product code	: 3H32-B-42		
Formula	: C11H13BrFN		
Other means of identification	: MFCD09749655		
1.2. Relevant identified uses of the s		advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substand Scientific research and o		
1.3. Details of the supplier of the safe	ety 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 Con	ipany - Account 10069)	
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance of	or mixture		
Classification (GHS-US)			
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 16	ritation s eye irritation		
2.2. Label elements			
GHS-US labeling Hazard pictograms (GHS-US)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H302 - Harmful if swallo H315 - Causes skin irrita H319 - Causes serious (H335 - May cause respi	tion eye irritation	
Precautionary statements (GHS-US)			
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	P362+P364 - Take off contaminated clothing and wash it 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		
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/informat	ion on ingredients		
3.1. Substance	<u>.</u>		
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1-(4-Bromo-2-fluorobenzyl)pyrrolidine	(CAS No) 283173-83-1	76	Acute Tox. 4 (Oral), H302
(Main constituent)			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 unw where possible). Move the affected p		
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get immediate medical a		hing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water.	Get immediate medic	al advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly w present and easy to do. Continue rin	sing. Get immediate m	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 eff	ects, both acute and delayed		
Symptoms/injuries	: The most important known symptom 2.2) and/or in section 11.	s and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate media	cal attention and special treatment need	ed	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxi appropriate for surrounding fire.	de. Dry powder. Water	r spray. Use extinguishing media
5.2. Special hazards arising from the s	substance or mixture		
Fire hazard	: Thermal decomposition generates: C Nitrogen oxides.	Carbon oxides. Hydrog	en bromide. Hydrogen fluoride.
Explosion hazard	: Risk of explosion if heated under cor containers.	nfinement. Use water s	spray or fog for cooling exposed
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight	fire remotely due to the	e risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective apparatus. For further information re		
SECTION 6: Accidental release me	asures		
	equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. E vapor or spray.	nsure adequate air ver	ntilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped w	ith suitable protective	equipment may intervene.

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6.1.2. For e	mergency responders	
Protective equip	oment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency pro	cedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Envir	onmental precautions	
Avoid release to	o the environment. Notify authoritie	s if product enters sewers or public waters.
6.3. Meth	ods and material for containmen	t and cleaning up
For containmen	it	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for clea	aning 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	on	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Refer	rence to other sections	
No additional in	formation available	
SECTION 7:	Handling and storage	
7.1. Preca	autions 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 measu	ires	: 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. Cond	litions for safe storage, including	any incompatibilities
Technical meas	sures	: Comply with applicable regulations.
Storage condition	ons	: Keep container closed when not in use.
Incompatible ma	aterials	: 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. 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	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available

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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	: 258.13 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 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 acids. 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

Information on toxicological effects 11.1.

Acute toxicity	: Oral: Harmful if swallowed.
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				

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12.2.	Persistence and degradability					
No addit	No additional information available					
12.3.	Bioaccumulative potential					
No addit	ional 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 Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

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 Substances Control Act (TSCA) inventory except for:

		1-(4-Bromo-2-fluorobenzyl)pyrrolidine	CAS No 283173-83-1	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

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Full text of H-phrases:				
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4	
	Eye Irrit. 2A Skin Irrit. 2		Serious eye damage/eye irritation Category 2A	
			Skin corrosion/irritation Category 2	
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
	H302		Harmful if swallowed	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	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. 		
HMIS III Rating				
Health		: 3 Serious Hazard - Majo given	: 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.