

N-Boc-(3R)-fluoropyrrolidine Safety Data Sheet 4H483Z7 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/08/2015 Version: 1.0

SECTION 1: Identification 1.1. Identification	
I.I. Identification	
Product form	: Substance
Substance name	: N-Boc-(3R)-fluoropyrrolidine
CAS No	: 876617-25-3
Product code	: 4H48-3-Z7
Formula	: C9H16FNO2
Synonyms	: tert-Butyl (3R)-3-fluoropyrrolidine-1-carboxylate
Other means of identification	: MFCD04114065
I.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
I.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	
I.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	
Eye Irrit. 2A H319 - Causes serious eye i	n/irritation
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	ry irritation
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements	ry irritation
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	:
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

.3.	Other hazards				
lo addi	itional information available				
.4.	Unknown acute toxicity (GHS US)				
ot app	licable				
ECT	ION 3: Composition/information	on on in	gredients		
.1.	Substance				
Substar	nce type	: Mono	o-constituent		
Name	I		Product identifier	%	Classification (GHS-US)
	(3R)-fluoropyrrolidine anstituent)		(CAS No) 876617-25-3	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text	t of H-phrases: see section 16				
3.2.	Mixture				
√ot app	licable				
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
<sup>-</sup> irst-aid	d measures general		se of accident or if you feel unwell, seek r e possible). Move the affected personnel		
First-aid	d measures after inhalation		ove person to fresh air and keep comforta ration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid	d measures after skin contact	: Wasl	n with plenty of soap and water. Get medi	cal advice/atter	ition.
First-aid	d measures after eye contact		ediately flush eyes thoroughly with water f ent and easy to do. Continue rinsing. Get		
First-aid	d measures after ingestion		OT induce vomiting. Never give anything h out with water. Get medical advice/atter		unconscious person. Rinse
4.2.	Most important symptoms and effe	cts, both	acute and delayed		
Sympto	ms/injuries		most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
4.3.	Indication of any immediate medica	al attentio	n and special treatment needed		
Freat sy	mptomatically.				
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	e extinguishing media		nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2.	Special hazards arising from the su				
Fire haz	zard	: Ther	mal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.
5.3.	Advice for firefighters				
Firefigh	ting instructions	: In ca	se of fire: Evacuate area.		
Protecti	on during firefighting		r gas tight chemically protective clothing in ratus. For further information refer to sect		
SECT	ION 6: Accidental release mea	sures			
6.1.	Personal precautions, protective e	quipment	and emergency procedures		
Genera	Imeasures	: Evac	uate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
	For non-emergency personnel				
5.1.1.		. Only	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
5.1.1. Emerge	ency procedures	: Only	qualities percentiter equipped man editabl		
	ency procedures For emergency responders	: Only			
Emerge 6.1.2.		: Do n	ot attempt to take action without suitable to section 8: "Exposure controls/personal		ment. For further information

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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3.	Methods and material for containment and cleaning up		
For co	ntainment	: 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	information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4.	Reference to other sections		
No additional information available			
SEC	FION 7: Handling and storage		
7.1.	Precautions for safe handling		
Precau	utions 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 dust, mist, spray. Wear personal protective	

			equipment. Avoid contact with skin and eyes.
Hyg	iene 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	ing	any incompatibilities
Tec	hnical measures	:	Comply with applicable regulations.
Sto	rage conditions	:	Keep container closed when not in use.
Inco	ompatible materials	:	Refer to Section 10 on Incompatible Materials.

Storage area	: Store in dry, cool, well-ventilated area.
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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 a	nd chemical r	properties

9.1. Information on basic physical and	d 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	: 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	: 189.23 g/mol

# N-Boc-(3R)-fluoropyrrolidine Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

<b>SECTION 10: Stability and reactivity</b>	I de la construcción de la constru
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and sto	prage conditions.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong acids. Strong bases. Strong oxidizing ag	ents. Strong reducing agents.
10.6. Hazardous decomposition products	S
	zardous decomposition products should not be produced. Hazardous decomposition products in case of
Under normal conditions of storage and use, had fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case o
fire, see Section 5.	
fire, see Section 5. SECTION 11: Toxicological information	tion
fire, see Section 5.	tion
fire, see Section 5. SECTION 11: Toxicological information	tion
fire, see Section 5. SECTION 11: Toxicological informat 11.1. Information on toxicological effects	tion s
fire, see Section 5. SECTION 11: Toxicological informat 11.1. Information on toxicological effects Acute toxicity	tion s
fire, see Section 5. SECTION 11: Toxicological information on toxicological effects Acute toxicity Skin corrosion/irritation	tion s • Not classified • Causes skin irritation.
fire, see Section 5. SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	tion
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fire, see Section 5. SECTION 11: Toxicological informat 11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	tion  Not classified  Causes skin irritation.  Causes serious eye irritation.  Not classified  Not classified  Not classified  Not classified
fire, see Section 5. SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	tion  Not classified  Causes skin irritation.  Causes serious eye irritation.  Not classified  Not classified  Not classified  Not classified  Not classified  Not classified
fire, see Section 5.  SECTION 11: Toxicological informat 11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	tion  Not classified  Causes skin irritation.  Causes serious eye irritation.  Not classified  Not classified  Not classified  Not classified  May cause respiratory irritation.

	ON 12: Ecological Information		
12.1.	Toxicity		
No addit	ional information available		
12.2.	Persistence and degradability		
No addi	ional information available		
12.3.	Bioaccumulative potential		
No addi	ional information available		
12.4.	Mobility in soil		
No addi	ional information available		
12.5.	Other adverse effects		
No addit	ional information available		
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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal consideration	ons
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.
<b>SECTION 14: Transport information</b>	1
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	on and a second s
15.1. US Federal regulations	
All components of this product are listed, or e Substances Control Act (TSCA) inventory exc	xcluded from listing, on the United States Environmental Protection Agency Toxic cept for:

N-Boc-(3R)-fluoropyrrolidine	CAS No 876617-25-3	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

# **SECTION 16: Other information**

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
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.