

Safety Data Sheet 4H513R3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/06/2017 Version: 1.0

SECTION 1: Identification		
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Product form	: Substance	no malidina di angla su data
Substance name	: rel-tert-Butyl (3R,4R)-3-amino-4-fluoro	ppyrrolidine-1-carboxylate
CAS No	: 1363382-79-9	
Product code	: 4H51-3-R3	
Formula	: C9H17FN2O2	
Synonyms	: trans-1-Boc-3-amino-4-fluoropyrrolidir	16
Other means of identification	: MFCD18207795	
1.2. Relevant identified uses of the substa		inst
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the safety d	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		
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Accou	unt 10069)
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mi	xture	
Classification (GHS-US)		
Acute Tox. 4 (Oral)H302 - Harmful if swalloweSkin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirateFull text of H-phrases: see section 16	n e 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 swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritatior	ı
Precautionary statements (GHS-US)	P301+P312 - If swallowed: Call a POI P302+P352 - If on skin: Wash with ple P304+P340 - If inhaled: Remove pers P305+P351+P338 - If in eyes: Rinse of lenses, if present and easy to do. Con P312 - Call a POISON CENTER or do	ndling en using this product ventilated area tive clothing/eye protection/face protection ISON CENTER or doctor/ physician if you feel unwell enty of soap and water ion to fresh air and keep comfortable for breathing cautiously with water for several minutes. Remove contact titnue rinsing
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	 P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention 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	S)		
Not applicable			
SECTION 3: Composition/informa	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
rel-tert-Butyl (3R,4R)-3-amino-4-fluoropyrrolidine- carboxylate (Main constituent)	-1- (CAS No) 1363382-79-9	<= 100	Acute Tox. 4 (Oral), H302 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	S		
First-aid measures general	: In case of accident or if you feel unwo where possible). Move the affected p	ersonnel away from t	he contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get medical advice/atten		thing. If not breathing, give artificial
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, if present and easy to do. Continue rinsing. Get medical advice/attention.		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.		
4.2. Most important symptoms and e	effects, both acute and delayed		
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 med Treat symptomatically.	dical attention and special treatment need	ed	
SECTION 5: Firefighting measure	S		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxic appropriate for surrounding fire.	de. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising from the	e substance or mixture		
Fire hazard	: Thermal decomposition generates: C	arbon oxides. Hydrog	gen fluoride. Nitrogen oxides.
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area.		
Protection during firefighting			
SECTION 6: Accidental release m	easures		
6.1. Personal precautions, protective	e equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Er	nsure adequate air ve	ntilation. Do not breathe dust.
6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped wi	ith suitable protective	equipment may intervene

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6.1.2. For emergency respon	ders
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precau	tions
Avoid release to the environment.	Notify authorities if product enters sewers or public waters.
6.3. Methods and material	for containment and cleaning up
For containment	: 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 sec	tions
No additional information available	
SECTION 7: Handling and	storage
7.1. Precautions for safe h	andling
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 dust, mist, spray. 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 sto	orage, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

No additional information available

ains and safety showers
e and Face Protection.
910.134: Respiratory
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SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and	chemical properties
Physical	state	: Solid
Color		: No data available
Odor		: No data available
Odor thr	eshold	: No data available
pН		: No data available
Melting p	point	: No data available
Freezing	l point	: No data available
Boiling p	oint	: No data available
Flash po	int	: No data available
Relative	evaporation rate (butyl acetate=1)	: No data available
Flammal	bility (solid, gas)	: No data available
Explosio	n limits	: No data available

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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	: 204.24 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 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 : 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

SECT	SECTION 12: Ecological information				
12.1.	Toxicity				
No additional information available					
12.2.	Persistence and degradability				
No additional 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 considerations

13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations

- : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
- Additional information
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : 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:

rel-tert-Butyl (3R,4R)-3-amino-4-fluoropyrrolidine-1-carboxylate	CAS No 1363382-79-9	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:		
ſ	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	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
	H302		Harmful if swallowed
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
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.		In prompt medical attention was fore ignition can occur. under fire exposure conditions,	
HMIS II	I Rating		
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flamma	ability	 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) 	
Physica	1	: 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.