

(2R)-Piperidine-2-carboxylic acid, N-BOC protected

Safety Data Sheet 4H561UZ

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 01/20/2016

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: (2R)-Piperidine-2-carboxylic acid, N-BOC protected
CAS No	: 28697-17-8
Product code	: 4H56-1-UZ
Formula	: C11H19NO4
Synonyms	: D-Pipecolinic acid, N-BOC protected; (2R)-1-(tert-Butoxycarbonyl)piperidine-2-carboxylic acid
Other means of identification	: MFCD00237380
1.2. Relevant identified uses of the subs	tance 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 of	data 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	<u>n</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritatSTOT SE 3H335 - May cause respiratory irriFull text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, mist, spray 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 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 lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention

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P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

No additional information available				
2.4. Unknown acute toxicity (GHS	SUS)			
Not applicable				
SECTION 3: Composition/infor	mation on in	aredients		
3.1. Substance	mation on m	Igredients		
Substance type	· Mon	o-constituent		
	. Моне			
Name	tootod	Product identifier (CAS No) 28697-17-8	% <= 100	Classification (GHS-US)
(2R)-Piperidine-2-carboxylic acid, N-BOC pro (Main constituent)		(CAS NO) 20097-17-0	<= 100	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 measu				
First-aid measures general	wher	se of accident or if you feel unwell, see e possible). Move the affected personn	el away from the	e contaminated area.
First-aid measures after inhalation		ove person to fresh air and keep comfo ration. Get medical advice/attention.	rtable for breath	ning. If not breathing, give artificial
First-aid measures after skin contact		h with plenty of soap and water. Get me		
First-aid measures after eye contact	: Imme prese	ediately flush eyes thoroughly with wate ent and easy to do. Continue rinsing. G	er for at least 15 et medical advic	minutes. Remove contact lenses, if ce/attention.
First-aid measures after ingestion		IOT induce vomiting. Never give anythin th out with water. Get medical advice/at	0,	an unconscious person. Rinse
4.2. Most important symptoms an	id effects, both	acute and delayed		
Symptoms/injuries		most important known symptoms and e and/or in section 11.	ffects are descr	ibed in the labelling (see section
4.3. Indication of any immediate r	nedical attentic	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measu	ures			
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry opriate for surrounding fire.	powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from	the substance	or mixture		
Fire hazard		mal decomposition generates: Carbon	oxides. Nitroger	n oxides.
5.3. Advice for firefighters		· -	Ű.	
	: In ca	se of fire: Evacuate area		
Firefighting instructions	Firefighting instructions : In case of fire: Evacuate area. 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".			
• •				
Protection during firefighting SECTION 6: Accidental release	appa measures	ratus. For further information refer to se		
Protection during firefighting SECTION 6: Accidental release 6.1. Personal precautions, protec	appa measures tive equipment	ratus. For further information refer to se and emergency procedures	ection 8: "Expos	ure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release 6.1. Personal precautions, protec	appa measures tive equipment	ratus. For further information refer to se	ection 8: "Expos	ure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release 6.1. Personal precautions, protec General measures	appa e measures tive equipment : Evac	ratus. For further information refer to se and emergency procedures	ection 8: "Expos	ure controls/personal protection".
SECTION 6: Accidental release 6.1. Personal precautions, protec General measures	appa measures tive equipment Evac el	ratus. For further information refer to se and emergency procedures	ection 8: "Expos dequate air ven	ure controls/personal protection". tilation. Do not breathe dust.

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

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6.3. Methods and material for conta	.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 sections				
No additional information available				
SECTION 7: Handling and storag	le			
7.1. Precautions for safe handling				
7.1. Frecautions for sale fianding				
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			

7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: 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 phy	sical and chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 124 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl aceta	te=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	: 229.27 g/mol

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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

Other information 9.2.

No additional information available

SECT	ION 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 stora	ge 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	
	normal conditions of storage and use, haza e Section 5.	rdous decomposition products should not be produced. Hazardous decomposition products in case of
SECT	ION 11: Toxicological informatic	on de la constante de la const
11.1.	Information on toxicological effects	
Acute to	oxicity	: Not classified
Skin co	procion/irritation	· Causas skin irritation

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

SECTIO	ON 12: Ecological informati	on		
12.1.	Toxicity			
No additi	onal information available			
12.2.	Persistence and degradability			
No additi	onal information available			
12.3.	Bioaccumulative potential			
No additi	onal information available			
12.4.	Mobility in soil			
No additi	onal information available			
12.5.	Other adverse effects			
No additi	onal information available			
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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.	
SECTION 14: Transport information	n	
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	
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:		<i>c</i> ,
(2R)-Piperidine-2-carboxylic acid, N-BOC protected	CAS No 28697-17-8	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	

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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is 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.