

N-Boc-cis-4-hydroxy-D-proline Safety Data Sheet 4H581R0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/27/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: N-Boc-cis-4-hydroxy-D-proline
CAS No	: 135042-12-5
Product code	: 4H58-1-R0
Formula	: C10H17NO5
Synonyms	: (2R,4R)-4-Hydroxy-1,2-pyrrolidinedicarboxylic acid 1-(1,1-dimethylethyl) ester; (2R,4R)-1-(t
Synonyma	Butoxycarbonyl)-2-carboxy-4-hydroxypyrrolidine
1.2. Relevant identified uses of the su	bstance 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 safet	ty 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.c	<u>com</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificatio	m
2.1. Classification of the substance or	
Eye Irrit. 2A H319 - Causes serious eye irri STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements	
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements	
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation : ; GHS07
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 irritation : i irritation : i GHS07 : Warning i H315 - Causes skin irritation H319 - Causes serious eye irritation

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
SECTION 3: Composition/informa	ation on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
N-Boc-cis-4-hydroxy-D-proline		(CAS No) 135042-12-5	<= 100	Skin Irrit. 2, H315
(Main constituent)				Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				5101 52 5, 11555
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure	s			
First-aid measures general		se of accident or if you feel unwell, s e possible). Move the affected perso		
First-aid measures after inhalation	: Rem	ove person to fresh air and keep corration. Get medical advice/attention.		
First-aid measures after skin contact		with plenty of soap and water. Get	medical advice/atter	ntion.
First-aid measures after eye contact	: Imme	ediately flush eyes thoroughly with went and easy to do. Continue rinsing	ater for at least 15 n	ninutes. Remove contact lenses, if
First-aid measures after ingestion		OT induce vomiting. Never give any hout with water. Get medical advice		unconscious person. Rinse
4.2. Most important symptoms and e				
4.2. Wost important symptoms and e	effects, both	acute and delayed		
	: The r	nost important known symptoms an	d effects are describ	ed in the labelling (see section
Symptoms/injuries	: The r 2.2) a	nost important known symptoms an and/or in section 11.	d effects are describ	ed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate mediate	: The r 2.2) a	nost important known symptoms an and/or in section 11.	d effects are describ	ed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate med Treat symptomatically.	: The r 2.2) a dical attentio	nost important known symptoms an and/or in section 11.	d effects are describ	ed in the labelling (see section
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Method	s for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other ir	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	
	ION 7: Handling and storage Precautions for safe handling	
7.1.		: 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.

	smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	icluding 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

Control parameters 8.1.

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 prope	rtion

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	: 146 - 151 °C
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	: 231.25 g/mol
Solubility	: No data available
Log Pow	: No data available

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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 con	ditions.
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 of fire, see Section 5.	decomposition products should not be produced. Hazardous decomposition products in case of

SECTION 11: Toxicological information Information on toxicological effects 11.1. : Not classified Acute toxicity 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 : Not classified exposure) Aspiration hazard : Not classified **SECTION 12: Ecological information** 12.1. Toxicity No additional information available

12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No additi	ional information available
12.4.	Mobility in soil
No addit	ional information available
40.5	
12.5.	Other adverse effects

No additional information available

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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:

N-Boc-cis-4-hydroxy-D-proline	CAS No 135042-12-5	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.