

# **4-(Hydroxymethyl)piperidine, N-BOC protected** Safety Data Sheet 4H56114 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/20/2016 Version: 1.0

SECTION 4. Monthlingting			
SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 4-(Hydroxymethyl)piperid	ne, N-BOC protected	
CAS No	: 123855-51-6		
Product code	: 4H56-1-14		
Formula	: C11H21NO3		
Synonyms	: N-tert-butoxycarbonyl-4-p carboxylate; N-Boc-4-(hy	iperidinemethanol; tert-Butyl 4-(hydroxymethyl)piperidi droxymethyl)piperidine	ne-1-
Other means of identification	: MFCD02094488		
1.2. Relevant identified uses of the sub	stance or mixture and uses	idvised against	
Use of the substance/mixture	: Laboratory chemicals		
	Manufacture of substance Scientific research and de		
1.3. Details of the supplier of the safety	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@synguestlabs.com - www.synguestlabs.com	om		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Com	pany - Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or I			
Classification (GHS-US)			
Skin Irrit. 2 H315 - Causes skin irritation			
Eye Irrit. 2A H319 - Causes serious eye irrita	ation		
STOT SE 3 H335 - May cause respiratory ir			
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		
Hazard statements (GHS-US)	: H315 - Causes skin irritat	ion	
nazaru statements (Gn3-03)	H319 - Causes serious e	e irritation	
Precautionary statements (GHS-US)	H335 - May cause respira : P261 - Avoid breathing d	-	
	P264 - Wash skin thoroug P271 - Use only outdoors P280 - Wear protective g P302+P352 - If on skin: V P304+P340 - If inhaled: F P305+P351+P338 - If ind lenses, if present and eas P312 - Call a POISON CI P321 - Specific treatment P332+P313 - If skin irritat P337+P313 - If skin irritat P362+P364 - Take off co	hly after handling or in a well-ventilated area oves/protective clothing/eye protection/face protection /ash with plenty of soap and water emove person to fresh air and keep comfortable for br eyes: Rinse cautiously with water for several minutes. F	
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P501 - Dispose of contents/container to an approved waste disposal plant

2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informatic	n on ir	varadianta		
3.1. Substance		Igrealents		
Substance type	· Mon	p-constituent		
	. 10011		24	
Name 4-(Hydroxymethyl)piperidine, N-BOC protected		Product identifier (CAS No) 123855-51-6	<b>%</b> <= 100	Classification (GHS-US) Skin Irrit. 2, H315
(Main constituent)		(043 10) 123033-31-0	<= 100	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				
I.1. Description of first aid measures				
irst-aid measures general	wher	se of accident or if you feel unwell, seek r e possible). Move the affected personnel	away from the	contaminated area.
First-aid measures after inhalation	respi	ove person to fresh air and keep comforta ration. Get medical advice/attention.		
First-aid measures after skin contact		n with plenty of soap and water. Get medi		
First-aid measures after eye contact	pres	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 effects, both acute and delayed				
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.			
4.3. Indication of any immediate medica	l attentio	n and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable 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	bstance	or mixture		
Fire hazard	: Ther	mal decomposition generates: Carbon ox	des. Nitrogen d	oxides.
5.3. Advice for firefighters				
Firefighting instructions	: In ca	: 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".		
SECTION 6: Accidental release mea				
	s, protective equipment and emergency procedures			
Seneral measures	: Evac	uate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
.1.1. For non-emergency personnel				
mergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	uipment may intervene.
6.1.2. For emergency responders Protective equipment		ot attempt to take action without suitable   to section 8: "Exposure controls/personal		oment. For further information

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

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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.			
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 storage			
7.1. Precautions 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 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 storage, including 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 physical ar	d chemical properties
Physical	l state	: Solid
Color		: No data available
Odor		: No data available
Odor thr	reshold	: No data available
рН		: No data available
Melting p	point	: 75 - 76 °C
Freezing	g point	: No data available
Boiling p	point	: No data available
Flash po	pint	: > 110 °C
Relative	evaporation rate (butyl acetate=1)	: No data available
Flamma	bility (solid, gas)	: No data available
Explosio	on limits	: No data available
Explosiv	ve properties	: No data available
Oxidizin	g properties	: No data available
Vapor pr	ressure	: No data available
Relative	density	: No data available
Relative	vapor density at 20 °C	: No data available
Molecula	ar mass	: 215.29 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

#### 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 storag	e 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, hazard fire, see Section 5.	dous decomposition products should not be produced. Hazardous decomposition products in case of
<b>SECTION 11: Toxicological information</b>	n
11.1. Information on toxicological effects	
Acute toxicity :	Not classified

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	ION 12: Ecological informatio	n		
12.1.	Toxicity			
No add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
12.4.	Mobility in soil			
No add	itional information available			
12.5.	Other adverse effects			
No add	itional 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.			
<b>SECTION 14: Transport information</b>				
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:				

4-(Hydroxymethyl)piperidine, N-BOC protected	CAS No 123855-51-6	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.