

1-(tert-Butoxycarbonyl)piperidine-4carbohydrazide Safety Data Sheet 4H561D1

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 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1-(tert-Butoxycarbonyl)pipe	ridine-4-carbohydrazide	
CAS No	: 187834-88-4		
Product code	: 4H56-1-D1		
Formula	: C11H21N3O3		
Synonyms	1	, N1-BOC protected; 4-(Hydrazinocarbonyl)piperidi razinocarbonyl)piperidine-1-carboxylate	ne, N1-BOC
Other means of identification	: MFCD06795927		
1.2. Relevant identified uses of the s	ubstance or mixture and uses a	lvised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev		
1.3. Details of the supplier of the safe	ety 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			
1.4. Emergency telephone number	(0.1.1) 500, 1000, (05, 0	4 (40000)	
Emergency number	: (844) 523-4086 (3E Comp	any - Account 10069)	
SECTION 2: Hazard(s) identificati	on		
2.1. Classification of the substance of			
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye in STOT SE 3 H335 - May cause respirator			
Full text of H-phrases: see section 16	, maion		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS07		
Signal word (GHS-US)	: Warning	-	
Hazard statements (GHS-US)	: H315 - Causes skin irritatio H319 - Causes serious eyo H335 - May cause respirat	irritation	
Precautionary statements (GHS-US)	 P261 - Avoid breathing dui P264 - Wash skin thorougl P271 - Use only outdoors of P280 - Wear protective glo P302+P352 - If on skin: W P304+P340 - If inhaled: Re P305+P351+P338 - If in ex lenses, if present and easy P312 - Call a POISON CE P321 - Specific treatment P332+P313 - If skin irritation P337+P313 - If eye irritation 	it, mist, spray ly after handling or in a well-ventilated area ves/protective clothing/eye protection/face protectio ash with plenty of soap and water emove person to fresh air and keep comfortable for ves: Rinse cautiously with water for several minutes.	oreathing Remove contact
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		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 addi	tional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app	licable				
SECT	ION 3: Composition/information	n on in	gredients		
3.1.	Substance				
Substar	nce type	: Monc	-constituent		
Name			Product identifier	%	Classification (GHS-US)
	Butoxycarbonyl)piperidine-4-carbohydrazide nstituent)		(CAS No) 187834-88-4	<= 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 app	licable				
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.			
First-aid	measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention. 			
First-aid	l measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.			
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 effect	ts, both	acute and delayed		
Sympto	ms/injuries		nost important known symptoms and effe and/or in section 11.	cts are describe	ed in the labelling (see section
4.3.	Indication of any immediate medical	attentio	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the sub	stance	or mixture		
Fire haz	ard	: Therr	nal decomposition generates: Carbon ox	ides. Nitrogen o	xides.
5.3.	Advice for firefighters				
Firefigh	Firefighting instructions : In case of fire: Evacuate area.				
Protecti	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".				
SECT	ION 6: Accidental release meas	ures			

6.1. Personal precautions, protective	Personal precautions, protective equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.		
6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		

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6.2. Environmental precautions	
void release to the environment. Notify autho	rities if product enters sewers or public waters.
.3. Methods and material for containr	nent and cleaning up
or containment	: Stop leak if safe to do so.
lethods 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".
.4. Reference to other sections	
lo additional information available	
ECTION 7: Handling and storage	
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.
łygiene 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.
.2. Conditions for safe storage, inclue	ding any incompatibilities
echnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
torage area	: Store in dry, cool, well-ventilated area.
	construction
SECTION 8: Exposure controls/per	
A.1. Control parameters	
.2. Exposure controls	
ppropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers
ppropriate engineering certaiole	should be available in the immediate vicinity of any potential exposure.
land protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
ye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
kin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory
Other information	Protection. Safety shoes. 29 CFR 1910.136: Foot Protection.
ECTION 9: Physical and chemical	
1. Information on basic physical and	
'hysical state	: Solid
Color	: No data available
	: No data available
dor threshold	: No data available
H	: No data available
1elting point	: 104 - 106 °C
reezing point	: No data available
colling point	: No data available
lash point	: No data available
elative evaporation rate (butyl acetate=1)	: No data available
lammability (solid, gas)	: No data available
xplosion limits	: No data available
xplosive properties	: No data available
Dxidizing properties	: No data available
apor pressure	: No data available
elative density	: No data available
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Relative vapor density at 20 °C	: No data available
Molecular mass	: 243.3 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 sto	prage 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	S
Under normal conditions of storage and use, ha fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case o
SECTION 11: Toxicological informa	tion
44.4 1.6 .0	
11.1. Information on toxicological effects	
11.1. Information on toxicological effects Acute toxicity Acute toxicity	: Not classified
Acute toxicity	: Not classified
Acute toxicity Skin corrosion/irritation	: Not classified : Causes skin irritation.
Acute toxicity	: Not classified
Acute toxicity Skin corrosion/irritation Serious eye damage/irritation	 Not classified Causes skin irritation. Causes serious eye irritation.
Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified
Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified
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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)	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified May cause respiratory irritation.
Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified
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	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified May cause respiratory irritation.
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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 exposure) Aspiration hazard	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified Not classified
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 exposure) Aspiration hazard SECTION 12: Ecological information	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified Not classified
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 exposure) Aspiration hazard SECTION 12: Ecological information 12.1. Toxicity	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified Not classified

12.3. Bioaccumulative potential No additional information available

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects

No additional information available

SECTION 42. Dispessel consider	
SECTION 13: Disposal considera	ations
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 Additional information	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
SECTION 14: Transport informat	tion
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 informa	ation
15.1. US Federal regulations	
	or excluded from listing, on the United States Environmental Protection Agency Toxic
1-(tert-Butoxycarbonyl)piperidine-4-carbol	
	a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986
and 40 CFR Part 372.	
and 40 CFR Part 372.	
and 40 CFR Part 372. 15.2. International regulations CANADA	
and 40 CFR Part 372. 15.2. International regulations CANADA	
and 40 CFR Part 372. 15.2. International regulations CANADA No additional information available EU-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.