

Methyl (S)-Boc-5-pyrrolidone-2-carboxylate Safety Data Sheet 4H581SP according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1.1. Identification	
Product form	: Substance
Substance name	: Methyl (S)-Boc-5-pyrrolidone-2-carboxylate
CAS No	: 108963-96-8
Product code	: 4H58-1-SP
ormula	: C11H17NO5
Synonyms	: 1-tert-Butyl 2-methyl (2S)-(-)-5-oxopyrrolidine-1,2-dicarboxylate; (2S)-(-)-1-(tert- Butoxycarbonyl)-2-(methoxycarbonyl)-5-oxopyrrolidine; Boc-L-pyroglutamic acid methyl ester; Boc-Pyr-OMe
Other means of identification	: MFCD06809720
.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the safety	data sheet
SynQuest Laboratories, Inc.	
Ϙ.O. Box 309 Alachua, FL 32615 - United States of America Γ (386) 462-0788 - F (386) 462-7097 nfo@synguestlabs.com - www.synguestlabs.cor	<u>m</u>
I.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
kin Irrit. 2 H315 - Causes skin irritatio	
Skin Irrit. 2H315 - Causes skin irritatioEye Dam. 1H318 - Causes serious eyeSkin Sens. 1H317 - May cause an allerSTOT SE 3H335 - May cause respiratAquatic Acute 2H401 - Toxic to aquatic lifeAquatic Chronic 2H411 - Toxic to aquatic life	e damage gic skin reaction tory irritation
Eye Dam. 1H318 - Causes serious eyeSkin Sens. 1H317 - May cause an allerSTOT SE 3H335 - May cause respiratAquatic Acute 2H401 - Toxic to aquatic life	e damage gic skin reaction tory irritation
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Skin Irrit. 2 H315 - Causes skin irritatio Eye Dam. 1 H318 - Causes serious eye Skin Sens. 1 H317 - May cause an aller STOT SE 3 H335 - May cause respirat Aquatic Acute 2 H401 - Toxic to aquatic life Aquatic Chronic 2 H411 - Toxic to aquatic life Full text of H-phrases: see section 16 2. Label elements GHS-US labeling Hazard pictograms (GHS-US) 1	e damage gic skin reaction tory irritation a with long lasting effects : i i i i i i i i i i
Skin Irrit. 2 H315 - Causes skin irritatio Eye Dam. 1 H318 - Causes serious eye Skin Sens. 1 H317 - May cause an aller STOT SE 3 H335 - May cause respirat Aquatic Acute 2 H401 - Toxic to aquatic life Aquatic Chronic 2 H411 - Toxic to aquatic life Full text of H-phrases: see section 16 Section 16 2.2. Label elements GHS-US labeling GHS-US labeling	e damage gic skin reaction tory irritation e with long lasting effects

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	P310 P321 P332 P333 P362 P363 P391 P403 P405	s, if present and easy to do. Continue rin - Immediately call a POISON CENTER of - Specific treatment (see supplemental f +P313 - If skin irritation occurs: Get med +P313 - If skin irritation or rash occurs: G +P364 - Take off contaminated clothing a - Wash contaminated clothing before real - Collect spillage +P233 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap	or doctor/ physi irst aid instructi ical advice/atte Set medical adv and wash it befo use Keep container	ons on this label) ntion rice/attention ore reuse r tightly closed	
2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS US) Not applicable					
SECTION 3: Composition/information	n on in	gredients			
3.1. Substance	· Mono	constituent			
Substance type	. 101010	-constituent			
Name		Product identifier	%	Classification (GHS-US)	
Methyl (S)-Boc-5-pyrrolidone-2-carboxylate (Main constituent)		(CAS No) 108963-96-8	<= 100	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411	
Full text of H-phrases: see section 16					
.2. Mixture					
lot applicable					
SECTION 4: First aid measures					
1.1. Description of first aid measures					
irst-aid measures general	where	se of accident or if you feel unwell, seek is possible). Move the affected personnel	away from the	contaminated area.	
irst-aid measures after inhalation	respir	ove person to fresh air and keep comforta ation. Get medical advice/attention.			
First-aid measures after skin contact		with plenty of soap and water. Get med			
	 Wash with plenty of soap and water. Get medical advice/attention. Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical advice/attention. 				
First-aid measures after eye contact	prese	, ,			
irst-aid measures after eye contact	prese : Do No	nt and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything n out with water. Get medical advice/atte	by mouth to ar		
First-aid measures after eye contact	prese : Do No mouth	OT induce vomiting. Never give anything n out with water. Get medical advice/atte	by mouth to ar		
First-aid measures after eye contact First-aid measures after ingestion	prese : Do No mouth ts, both : The n	OT induce vomiting. Never give anything n out with water. Get medical advice/atte	by mouth to an ntion.	n unconscious person. Rinse	
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First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and effec Symptoms/injuries 4.3. Indication of any immediate medical Treat symptomatically. SECTION 5: Firefighting measures	prese : Do No mouth ts, both a : The n 2.2) a	OT induce vomiting. Never give anything n out with water. Get medical advice/atte acute and delayed nost important known symptoms and effe ind/or in section 11.	by mouth to an ntion.	n unconscious person. Rinse	
First-aid measures after eye contact First-aid measures after ingestion 1.2. Most important symptoms and effec Symptoms/injuries 1.3. Indication of any immediate medical Freat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media	prese : Do NG mouth ts, both : The n 2.2) a attention : Alcoh	OT induce vomiting. Never give anything n out with water. Get medical advice/atte acute and delayed nost important known symptoms and effe ind/or in section 11.	by mouth to an ntion. ects are describ	n unconscious person. Rinse	
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 First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and effect Symptoms/injuries 4.3. Indication of any immediate medical Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the sub- 	prese : Do No mouth ts, both a : The n 2.2) a attention : Alcoh appro	OT induce vomiting. Never give anything n out with water. Get medical advice/atte acute and delayed nost important known symptoms and effe ind/or in section 11. n and special treatment needed ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	by mouth to an ntion. ects are describ	n unconscious person. Rinse ed in the labelling (see section pray. Use extinguishing media	
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iccording t	o Federal Register / Vol. 77, No. 58 / Monday, N	narch zo, zo rz / kules anu kegulalions
SECT	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
General	measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protectiv	/e 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 precautions	
Avoid re	lease to the environment. Notify authoritie	s if product enters sewers or public waters.
6.3.	Methods and material for containmer	at and cleaning up
For cont	ainment	: Stop leak if safe to do so.
Methods	s for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addi	tional information available	
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons 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	g any incompatibilities
Technic	al measures	: Comply with applicable regulations.
Storage	conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.
Incompa	tible 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.
SECT	ON 8: Exposure controls/perso	nal protection
8.1.	Control parameters	
No addi	ional information available	
8.2.	Exposure controls	
Appropr	iate 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 pr	otection	: 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 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	: 68 - 72 °C						
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		,
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	:	243.2564 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	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	0.3. Possibility of hazardous reactions							
No additional information available								
10.4. Conditions to avoid								
Keep away from heat, sparks and flame.								
10.5. Incompatible materials								
Bases. Strong oxidizing agents.								
10.6. Hazardous decomposition product	S							
Under normal conditions of storage and use, ha fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of							
SECTION 11: Toxicological informa	tion							
11.1. Information on toxicological effect	S							
Acute toxicity	: Not classified							
Skin corrosion/irritation	: Causes skin irritation.							
Serious eye damage/irritation	: Causes serious eye damage.							
Respiratory or skin sensitization	: May cause an allergic skin reaction.							
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

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SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
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 additional information available

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 informat	ion				

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) Dangerous for the environment Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN3077 Environmentally hazardous substances, solid, n.o.s., 9, III

- : UN3077
- : Environmentally hazardous substances, solid, n.o.s.
- : 9 Class 9 Miscellaneous hazardous material 49 CFR 173.140
- : 9 Class 9 (Miscellaneous dangerous materials)



- : III Minor Danger
- : Yes



- : 213
- : 240

: G - Identifies PSN requiring a technical name

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ccording to Federal Register / Vol. 77, No. 58 / Monday, I	March 26, 2012 / Rules and Regula	tions	
Coording to Federal Register / Vol. 77, No. 58 / Monday, 1 DOT Special Provisions (49 CFR 172.102)	8 - A hazardous substance description "Other regulated solid materials, special prov 146 - This description may does not meet the definition 171.8 of this subchapter, or designated as environment transit or destination. 335 - Mixtures of solids that liquids or solids may be clas UN3077 and may be transp time the material is loaded transport unit must be leak- A112 - Notwithstanding the following IBCs are authorized IBC may not exceed a max a. Metal: 11A, 11B, 11N, 21 b. Rigid plastics: 11H1, 11H c. Composite with plastic in d. Fiberboard: 11G e. Wooden: 11C, 11D and f f. Flexible: 13H2, 13H3, 13I sift-proof and water resistar B54 - Open-top, sift-proof ra IB8 - Authorized IBCs: Meta plastics (11H1, 11H2, 21H1 21HZ2, 31HZ1 and 31HZ2) 13H2, 13H3, 13H4, 13H5, 7 IP3 - Flexible IBCs must be water-resistant liner. N20 - A 5M1 multi-wall pap T1 - 1.5 178.274(d)(2) Norn TP33 - The portable tank in powdered solids and for sol melting point which are coo or offered for transport abov tanks conforming to the pro packing group III or T7 for s stringent requirements for n pressure-relief devices or b instruction and special prov tank special provision TP3.	that is not a hazardous waste may be shipped under I substances, liquid or solid, n.o.s.", as appropriate. I ision B54 applies. De used for a material that poses a hazard to the env for a hazardous waste or a hazardous substance, a any hazard class as defined in Part 173 of this subc ally hazardous by the Competent Authority of the cou- are not subject to this subchapter and environmenta sified as "Environmentally hazardous substances, se orted under this entry, provided there is no free liquid pr at the time the packaging or transport unit is closed proof when used as bulk packaging. quantity limits shown in Column (9A) and (9B) for thi ad for transportation aboard passenger and cargo-on mum net quantity of 1,000 kg: A, 21B and 21N 12, 21H1 and 21H2 her receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2 11F (with inner liners) 14, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexibl it or must be fitted with a sift-proof and water resistar all cars are also authorized. II (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2 ; Fiberboard (11G); Wooden (11C, 11D and 11F); Fie 3L1, 13L2, 13L3, 13L4, 13M1 or 13M2). sift-proof and water-resistant or must be fitted with a er bag is authorized if transported in a closed transpor-	n addition, for rironment but s defined in hapter, if it is untry of origin, ally hazardous olid, n.o.s," d visible at the d. Each is entry, the ly aircraft. Each ly aircraft. Each ly aircraft. Each 1); Rigid 2, 21HZ1, exible (13H1, a sift-proof and ort vehicle. hular and above their es transported n in portable ances of th more g pressure, ringent tank e with portable ture material
DOT Deckering Exceptions (40 CED 172 year)	•	realise with the applicable requirements of this sub-	
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail	: 155 : No limit		
(49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49			
CFR 175.75)			
DOT Vessel Stowage Location	passenger vessel.	wed "on deck" or "under deck" on a cargo vessel ar	nd on a
Other information	: No supplementary informat	on available.	
TDG			
No additional information available			
Transport by sea			
UN-No. (IMDG)	: 3077		
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZ	ARDOUS SUBSTANCE, SOLID, N.O.S.	
Class (IMDG)	: 9 - Miscellaneous dangerou		
Packing group (IMDG)	: III - substances presenting	•	
Air transport			
UN-No. (IATA)	: 3077		
Proper Shipping Name (IATA)	: Environmentally hazardous	substance, solid, n.o.s.	
Class (IATA)	: 9 - Miscellaneous Dangerou	is Goods	
Packing group (IATA)	: III - Minor Danger		
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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:				
Methyl (S)-Boc-5-pyrrolidone-2-carboxylate	CAS No 108963-96-8	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

ii ie		
	Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
	Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	Skin Sens. 1	Skin sensitization Category 1
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
	H401	Toxic to aquatic life
	H411	Toxic to aquatic life with long lasting effects

NFPA health hazard	
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NFPA fire hazard

NFPA reactivity

2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
0 - Materials that will not burn.
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.