

## Safety Data Sheet 4H5819A

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

Date of issue: 04/27/2016

SECTION 1: Identification				
1.1. Identification				
Product form	: Substance			
Substance name	: (2S)-Morpholine-2-carboxy	lic acid, N-BOC protected		
CAS No	: 868689-63-8			
Product code	: 4H58-1-9A			
Formula	: C10H17NO5			
Synonyms	: (2S)-4-(tert-Butoxycarbony	l)morpholine-2-carboxylic acid; (2S)-4-(tert-Butoxycarbo	nyl)-2-	
	carboxymorpholine		- /	
Other means of identification	: MFCD06200662			
1.2. Relevant identified uses of the su	bstance or mixture and uses a	lvised against		
Use of the substance/mixture	: Laboratory chemicals			
	Manufacture of substance Scientific research and de			
1.2 Details of the supplier of the sefe		olopinon		
1.3. Details of the supplier of the safe	ty data sneet			
SynQuest Laboratories, Inc. P.O. Box 309				
Alachua, FL 32615 - United States of America	l			
T (386) 462-0788 - F (386) 462-7097				
info@synquestlabs.com - www.synquestlabs.				
1.4. Emergency telephone number				
Emergency number	: (844) 523-4086 (3E Comp	any - Account 10069)		
SECTION 2: Hazard(s) identificatio	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 irr	itation			
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)				
	•			
	$\sim$			
	GHS07			
Signal word (GHS-US)	: Warning			
Hazard statements (GHS-US)	: H315 - Causes skin irritation			
	H319 - Causes serious ey			
	H335 - May cause respirat	-		
Precautionary statements (GHS-US)	: P261 - Avoid breathing du P264 - Wash skin thoroug			
	P271 - Use only outdoors			
	P280 - Wear protective glo	ves/protective clothing/eye protection/face protection		
		ash with plenty of soap and water	thing	
		emove person to fresh air and keep comfortable for brea res: Rinse cautiously with water for several minutes. Re		
	lenses, if present and easy			
	P312 - Call a POISON CE	NTER or doctor/physician if you feel unwell		
		see supplemental first aid instructions on this label)		
P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention				
	P362+P364 - Take off con	aminated clothing and wash it before reuse		
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- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up P504 Dispess of contents/container to an approved waste disposal plant

P501 - Dispose of contents/container to an approved waste disposal plant			
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
(2S)-Morpholine-2-carboxylic acid, N-BOC protected (Main constituent)	(CAS No) 868689-63-8	<= 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 measures			
First-aid measures general	: In case of accident or if you feel unwell, see where possible). Move the affected person		
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.</li> </ul>		
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.		
irst-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.		
irst-aid measures after ingestion	<ul> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.</li> </ul>		
4.2. Most important symptoms and effect	s, 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 medical	attention and special treatment needed		
Freat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry appropriate for surrounding fire.	powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the sub	stance or mixture		
Fire hazard	: Thermal decomposition generates: Carbon	oxides. Nitrogen	oxides.
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area.		
Protection during firefighting	: Wear gas tight chemically protective clothin	g in combinatior	with self contained breathing
	apparatus. For further information refer to s		
SECTION 6: Accidental release meas	ures		
5.1. Personal precautions, protective equ			
	: Evacuate unnecessary personnel. Ensure a	adequate air ven	tilation. Do not breathe dust.
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suit	able protective e	quipment may intervene.
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				
Avoid release to the environment. Notify author	Avoid release to the environment. Notify authorities if product enters sewers or public waters.			
6.3. Methods and material for contain	ment 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				
<b>SECTION 7: Handling and storage</b>				
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, inclu	ding 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/pe	rsonal 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	<ul> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> </ul>
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties
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9.1. Information on basic physical an	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	: 127 - 134 °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

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Relative vapor density at 20 °C	: No data available
Molecular mass	: 231.25 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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional 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

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information		
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	

SECTIO	DN 12: Ecological information
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

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## 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 informa	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 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 (ISCA) Inventory except for:		
(2S)-Morpholine-2-carboxylic acid, N-BOC protected	CAS No 868689-63-8	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.