

# SAFETY DATA SHEET

Revision Date 26-Feb-2020

**Revision Number** 2

1. Identification			
Product Name	(R)-4-Boc-morpholine-3-carboxylic acid		
Cat No. :	H64654		
CAS-No Synonyms	869681-70-9 No information available		
Recommended Use Uses advised against Details of the supplier of the safet	Laboratory chemicals. Food, drug, pesticide or biocidal product use. ty data sheet		
<u>Company</u> Alfa Aesar Thermo Fisher Scientific Chemicals, 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 <b>Email:</b> tech@alfa.com www.alfa.com	Inc.		
Emergency Telephone Number During normal business hours (Mon After normal business hours, call Ca	day-Friday, 8am-7pm EST), call (800) 343-0660. ırechem 24 at (866) 928-0789.		

## 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word Warning

Hazard Statements

Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful if swallowed, in contact with skin or if inhaled



## **Precautionary Statements**

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Indestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

### Rinse mouth

#### Storage

Store in a well-ventilated place. Keep container tightly closed

#### Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Compo	nent	CAS-No	Weight %
(R)-4-Boc-morpholine	e-3-carboxylic acid	869681-70-9	<=100
4. First-aid measures			
	т. і		
General Advice	If symptoms p	persist, call a physician.	
Eye Contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off imm call a physicia	, i ,	east 15 minutes. If skin irritation persists,
Inhalation	Remove to fre symptoms oc	esh air. If not breathing, give artificial cur.	respiration. Get medical attention if

Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

## 5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). **Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### **NFPA**

<u>NFFA</u>	Health 2	Flammability 0	Instability 0	Physical hazards -
		6. Accidental re	lease measures	
Personal	Precautions	Ensure adequate ventilation	on. Use personal protective equ	ipment as required. Avoid dust
Environm	ental Precautions	Should not be released int Information.	o the environment. See Sectior	12 for additional Ecological
Methods Up	Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.			
	7. Handling and storage			
Handling			equipment/face protection. Ensi clothing. Avoid ingestion and in	ure adequate ventilation. Do not halation. Avoid dust formation.
Storage		Store in freezer.		
	8. 6	Exposure controls	/ personal protection	on
Exposure	Guidelines		tain any hazardous materials w gion specific regulatory bodies.	
Engineer	ing Measures	Ensure that eyewash stati	ons and safety showers are clo	se to the workstation location.

#### Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hvaiene	Measures

Handle in accordance with good industrial hygiene and safety practice.

AppearanceNo information availableOdorNo information availableOdor ThresholdNo information availableOdor ThresholdNo information availablepHNo information availableMelting Point/Range181 °C / 357.8 °FBoiling Point/RangeNo information availableFlash PointNo information availableEvaporation RateNo information availableFlammability (solid,gas)No information availableFlammability or explosive limitsUpperUpperNo data availableLowerNo information availableVapor PressureNo information availableSolubilityNo information availablePartition coefficient; n-octanol/waterNo information availableAutoignition TemperatureNo information availableViscosityNot applicableBoiling PointNo information availableComposition TemperatureNo information availableMoleccular FormulaC10 H17 N O5	9. Physica	9. Physical and chemical properties			
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Viscosity Not applicable   Molecular Formula C10 H17 N O5   Molecular Weight 231.25	Autoignition Temperature	No information available			
Molecular Formula C10 H17 N O5   Molecular Weight 231.25	Decomposition Temperature	No information available			
Molecular Weight 231.25	Viscosity	Not applicable			
	Molecular Formula	C10 H17 N O5			
10. Stability and reactivity	Molecular Weight	231.25			
	10. Stability and reactivity				

#### 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

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Product Information Component Information		
Toxicologically Synergistic	No information available	
Products		
Delayed and immediate effects as well as chronic effects from short and long-term exposure		

Irritation No informati	on available
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Sensitization No	information available
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Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
(R)-4-Boc-morpholine-	869681-70-9	Not listed	Not listed	Not listed	Not listed	Not listed
3-carboxylic acid Mutagenic Effects		No information ava	ailahla			
Mutagenic Enects		No information ave				
Reproductive Effect	s	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		Respiratory system None known	n			
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	,both acute and	No information ava	ailable			
Endocrine Disrupto	r Information	No information ava	ailable			
Other Adverse Effect	ets	The toxicological p	properties have not	been fully investig	jated.	
		12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra	iins.					
Persistence and De	gradability	No information ava	ailable			
Bioaccumulation/ A	ccumulation	No information ava	ailable.			
Mobility		No information ava	ailable.			

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT UN-No Proper Shipping Name Technical Name Hazard Class Packing Group <u>TDG</u> UN-No	UN2811 Toxic solid, organic, n.o.s. ((R)-4-Boc-morpholine-3-carboxylic acid) 6.1 III UN2811

Proper Shipping Name Hazard Class Packing Group IATA	Toxic solid, organic, n.o.s. 6.1 III
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S*
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s.
Hazard Class	6.1
Packing Group	III
	15. Regulatory information

#### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
(R)-4-Boc-morpholine-3-carboxylic acid	869681-70-9	-	-	-

#### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

Not applicable TSCA 12(b) - Notices of Export

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
(R)-4-Boc-morpholine-3-carboxylic	869681-70-9	-	-	-	-	-	-	-	-
acid									

### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant	N N

DOT Severe Marine Pollutant	Ν
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	26-Feb-2020 26-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 869681-70-9.

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**