

Safety Data Sheet per OSHA HazCom 2012

	100 011 10/20/2014
1 Identification	
Product identifier Product name: <b>N-Boc-2-cyclopropyl-L-glycine</b>	
Stock number: H62914	
CAS Number: 155976-13-9	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660_	
Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928	0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS).	
Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable	
Hazard pictograms Not applicable Signal word Not applicable	
Hazard statements' Not applicable WHMIS classification Not controlled	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 155976-13-9 N-Boc-2-cyclopropyl-L-glycine	
4 First-aid measures	
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special freatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture	
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Nitrogen oxides (NOx) Advice for firefighters	
Protective equipment: Wear self-contained respirator.	
Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course.	
Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required.	
Reference to other sections See Section 7 for information on safe handling	
See Section 8 for information on personal protection equipment.	(Contd. on page 2)

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Page 2/4 Printing date 11/24/2015 Reviewed on 10/20/2014

(Contd. of page 1)

See Section 13 for disposal information.

### 7 Handling and storage

Handling

Precautions for safe handling Keep container tightly sealed. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Refrigerate Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation\_temperature / start: Not determined Not determined Not determined Flammability (solid, gaseous) Not determined. Ignition temperature: Decomposition temperature: Not determined Not determined Auto igniting: Not determined Danger of explosion: Explosion limits: Lower: Not determined. Not determined Upper: Not determined

Upper:Not determinedVapor pressure:Not applicable.Density:Not determinedRelative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility withNot determined.Water:Not determined.Vapor coefficient (n-octanol/water):Not determined.Viscosity:Not determined.dynamic:Not applicable.kinematic:Not applicable.Viscosity:Not applicable.kinematic:Not applicable.Not applicable.Not applicable.kinematic:Not applicable.Not applicable.Not applicable.kinematic:Not applicable.Not applicable.Not applicable.kinematic:Not applicable.Not applicable.Not applicable.kinemationNo further relevant information available.

## 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat

(Contd. on page 3)

Product name: N-Boc-2-cyclopropyl-L-glycine			
Hazardous decomposition products:		(Contd. of page 2)	
Carbon monoxide and carbon dioxide Nitrogen oxides			
11 Toxicological information			
Information on toxicological effects Acute toxicity: No effects known.		· · · · · · · · · · · · · · · · · · ·	
LD/LC50 values that are relevant for classification: No data		· · · · · · · · · · · · · · · · · · ·	
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation		· · · · · · · · · · · · · · · · · · ·	
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.		· · · · · · · · · · · · · · · · · · ·	
Carcinogenicity: No classification data on carcinogenic properties of this mate Reproductive toxicity: No effects known.	erial is available from the EPA, IARC, NTP, OSHA or ACGIH.	· · · · · · · · · · · · · · · · · · ·	
Specific target organ system toxicity - repeated exposure: No effects know. Specific target organ system toxicity - single exposure: No effects known.	'n.		
Aspiration hazard: No effects known.			
Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute	and chronic toxicity of this substance is not fully known.		
12 Ecological information		1	
Toxicity Aquatic toxicity: No further relevant information available.			
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.			
Mobility in soil No further relevant information available. Additional ecological information:			
General notes: Do not allow undiluted product or large quantities to reach ground water, water	course or sewage system	!	
Avoid transfer into the environment. Results of PBT and vPvB assessment		!	
PBT: Not applicable.		!	
vPvB: Not applicable. Other adverse effects No further relevant information available.		!	
13 Disposal considerations		i	
Waste treatment methods		!	
	Recommendation Consult state, local or national regulations to ensure proper disposal.		
<b>Recommendation:</b> Disposal must be made according to official regulations.			
14 Transport information			
UN-Number DOT, ADN, IMDG, IATA	Not applicable		
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable		
Transport hazard class(es)		· · · · · · · · · · · · · · · · · · ·	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	· · · · · · · · · · · · · · · · · · ·	
Packing group DOT, IMDG, IATA			
DOT, IMDG, IATA Environmental hazards:	Not applicable Not applicable.	'	
Special precautions for user	Not applicable.		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod			
Transport/Additional information:			
DOT Marine Pollutant (DOT):	No		
UN "Model Regulation":	-		
		<u> </u>	
15 Regulatory information			
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable			
Hazard pictograms Not applicable Signal word Not applicable			
Hazard statements Not applicable National regulations			
This product is not listed in the U.S. Environmental Protection Agency Toxic Su	Ibstances Control Act Chemical Substance Inventory. Use of this pro	duct is restricted	
to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).			
This product is not listed on the Canadian Domestic Substances List (DSL) or the SARA Section 313 (specific toxic chemical listings) Substance is not listed.	he Canadian Non-Domestic Substances List (NDSL).		
California Proposition 65 Bron 65 - Chamicals known to cause cancer Substance is not listed			

California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Substance is not listed. Substance is not listed. Substance is not listed. (Contd. on page 4)

(Contd. on page 4)

# Product name: N-Boc-2-cyclopropyl-L-glycine

(Contd. of page 3)

#### Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and accoryms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA