



	Konowod	011 03/03/2011
1	1 Identification	
	Product identifier Product name: N-Boc-2-methyl-L-proline	
	Stock number: H52796	
	CAS Number: 103336-06-7	
	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) 928-078	9.
2	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.	
	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) (Understand Statematic Statematics)	
	(Hazardouš Materials Identification System)	
	FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment	
	PBT: Not applicable. vPvB: Not applicable.	
3	3 Composition/information on ingredients	
	Chemical characterization: Substances CAS# Description:	
	103336-06-7 N-Boc-2-methyl-L-proline	
4	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 treatment needed No further relevant information available.	
5	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)	
	Possibly Hydrogen cyanide (HCN) Advice for firefighters	
	Protective equipment: Wear self-contained respirator.	
	Wear fully protective impervious suit.	
6	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 material to be released to the environment without proper governmental permits.	
	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	
		ontd. on page 2)

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See Section 8 for information on persona See Section 13 for disposal information.	l protection equipment.	(Contd. of page 1)
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. any incompatibilities s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. Iditions: d containers.	
8 Exposure controls/personal prote Additional information about design o Properly operating chemical fume hood of		
Additional information: No data	uire monitoring at the workplace: Not required.	
Protection of hands: Impervious gloves	Indling chemicals should be followed. nad feed. hing immediately. d of work. orking environment. oriator when high concentrations are present. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Body protection: Protective work clothir	ng.	
9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Color: Odor:	mical properties Solid White Not determined	
	Not determined.	
· · ·	Not applicable.	
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined.	
	Product does not present an explosion hazard.	
Lower: Upper: Vapor pressure: Density: Relative density	Not determined Not determined Not applicable. Not determined Not determined.	
Evaporation rate Solubility in / Miscibility with	Not applicable. Not applicable.	
Water: Partition coefficient (n-octanol/water): Viscosity:	Not determined Not determined.	
dynamic: kinematic:	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.	(Contd. on page 3)

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Product name: N-Boc-2-methyl-L-proline					
Possibly Hydrogen cyanide (HCN)		(Contd. of page 2)			
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					
Eve 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 mat	terial is available from the EPA, IARC, NTP, OSHA or ACGIH.				
Reproductive foxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects know	MD				
Specific target organ system toxicity - single exposure: No effects known.	wri.				
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.					
Additional toxicological information: To the best of our knowledge the acut	e and chronic toxicity of this substance is not fully known.				
12 Ecological information					
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 material to be released to the environment without proper govern	Do not allow material to be released to the environment without proper governmental permits.				
Do not allow undiluted product or large quantities to reach ground water, wate Avoid transfer into the environment.	r course or sewage system.				
Results of PBT and vPvB assessment					
PBT: Not applicable. vPvB: Not applicable.					
Other adverse effects No further relevant information available.					
13 Disposal considerations					
Waste treatment methods					
Recommendation Consult state, local or national regulations to ensure prope	er disposal.				
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.					
14 Transport information Not a hazardous material for transportation.					
UN-Number DOT, IMDG, IATA	None				
UN proper shipping name DOT, IMDG, IATA	None				
Transport hazard class(es)					
DOT, ADR, IMDG, IATA Class	None				
	none				
Packing group DOT, IMDG, IATA	None				
Environmental hazards:	Not applicable.				
Special precautions for user	Not applicable.				
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co					
Transport/Additional information:	Not dangerous according to the above specifications.				
DOT Marine Pollutant (DOT):	No				
15 Regulatory information					
Safety, health and environmental regulations/legislation specific for the s	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 Substances Control Act Chemical Substance Inventory. Use of this product 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.					
SARA Section 313 (specific toxic chemical listings) 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 ind Other regulations, limitations and prohibitive regulations	ividuals.				
Substance of Very High Concern (SVHC) according to the REACH Regula	ations (EC) No. 1907/2006. Substance is not listed.				
The conditions of restrictions according to Article 67 and Annex XVII of t market and use must be observed.	he Regulation (EC) No 1907/2006 (REACH) for the manufacturin	ng, placing on the			
Substance is not listed					
Annex XIV of the REACH Regulations (requiring Authorisation for use) S Chemical safety assessment: A Chemical Safety Assessment has not been	ubstance is not listed.				
Chemical salety assessment. A Chemical Salety Assessment has not been	vameu vul.	USA –			

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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 user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:

ID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO: Ti: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IMDG: International Civil Aviation of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal dose, 50 percent
VPWs very Persistent and very Bioaccumulative
ACGIH: American Chernental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMTe: National Toxicology Program (USA)
IATE: International Air Transport Goods (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA