



(Contd. on page 2)

1	Identification Product identifier
	Product name: N-Boc-2-fluoro-L-phenylalanine
	Stock number: H62620
	CAS Number: 114873-00-6
	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.
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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)
	Hazardouš Materials Identification System) Health (acute effects) = 1
	PIRE 1 Flammability = 1 Reactivity 1 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: 114873-00-6 N-Boc-2-fluoro-L-phenylalanine
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	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 Hydrogen fluoride (HF)
	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 (Contd. on page 2)

	henylalanine	
See Section 8 for information on perso See Section 13 for disposal information	onal protection equipment. n.	(Contd. of page
7 Handling and storage		
Handling		
Precautions for safe handling Keep container tightly sealed.		
Store in cool, dry place in tightly closed		
, ,	st explosions and fires: No information known.	
Conditions for safe storage, includir Storage	ng any incompatibilities	
Requirements to be met by storeroo	oms and receptacles: No special requirements.	
Information about storage in one co Further information about storage c	ommon storage facility: Store away from oxidizing agents.	
Keep container tightly sealed.		
Store in cool, dry conditions in well sea Specific end use(s) No further relevan	aled containers. nt information available.	
3 Exposure controls/personal pro	otection	
Additional information about design		
	d designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters		
Components with limit values that re The product does not contain any relev	equire monitoring at the workplace: vant 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 mea	asures	
The usual precautionary measures for	handling chemicals should be followed. s and feed.	
Keep away from foodstuffs, beverages Remove all soiled and contaminated cl	s and feed. Slothing immediately	
Wash hands before breaks and at the	end of work.	
Maintain an ergonomically appropriate	e working environment. espirator when high concentrations are present.	
Recommended filter device for shor	espirator when high concentrations are present.	
Use a respirator with type N95 (USA) of	or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to	determine if air-
purifying respirators are appropriate.	or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to Only use equipment tested and approved under appropriate government standards.	determine if air-
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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

Product name: N-Boc-2-fluoro-L-phenylalanine					
Hazardous decomposition products: Carbon monoxide and carbon dioxide		(Contd. of page 2)			
Carbon monoxide and carbon dioxide Hydrogen fluoride 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.	Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.				
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known.					
Specific target organ system toxicity - repeated exposure: No effects Specific target organ system toxicity - single exposure: No effects	ects known.				
Specific target organ system toxicity - single exposure: No effects Aspiration hazard: No effects known.	s known.				
Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge	and the second				
	the acute 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 availa Bioaccumulative potential No further relevant information available.	able.				
Mobility in soil No further relevant information available.					
Additional ecological information: General notes:					
Do not allow undiluted product or large quantities to reach ground wat	ter, 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					
Waste treatment methods Recommendation Consult state, local or national regulations to ensu	ire proper disposal.				
Uncleaned packagings:					
Recommendation: Disposal must be made according to official regul	lations.				
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					
	Not applicable				
Environmental hazards:	Not applicable.				
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the	Not applicable.				
Transport in bulk according to Annex ii of MARPOL73/78 and the Transport/Additional information:					
DOT					
Marine Pollutant (DOT):	No				
UN "Model Regulation":					
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					
Hăzard 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					
to research and development only. This product must be used by or a product must not be used for commercial purposes or in formulations	firectly under the supervision of a technically qualified individual as defined to for commercial purposes.	by ISCA. This			
product must not be used for commercial purposes or in formulátions for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).					
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.	d.				

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. 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. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. (Contd. on page 4)

Product name: N-Boc-2-fluoro-L-phenylalanine

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(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)

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