

Safety Data Sheet per OSHA HazCom 2012

	1 Identification Product identifier	
	Product name: N-Boc-3-trifluoromethyl-L-phenylalanine	
	Stock number: H62637 CAS Number: 142995-31-1	
	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) 928-0)789.
1	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	
	Hazard pictograms not applicable Hazard statements Not applicable WHMIS classification Not controlled	
	WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4)	
	(Hazardous Materials Identification System) HEALTH 1 Health (acute effects) = 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: 142995-31-1 N-Boc-3-trifluoromethyl-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	
	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)

Product name: N-Boc-3-trifluorome	thyl-L-phenylalanine			
See Section 8 for information on persor	al protection equipment	(Contd. of page 1)		
See Section 13 for disposal information				
7 Handling and storage				
Handling Precautions for safe handling				
Keep container tightly sealed.				
Store in cool, dry place in tightly closed Information about protection against	explosions and fires: No information known.			
Conditions for safe storage, includin	•			
Storage Requirements to be met by storeroor	ns and receptacles: No special requirements.			
Information about storage in one cor Further information about storage co	nmon 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	ed containers. t information available.			
8 Exposure controls/personal prot				
Additional information about design Properly operating chemical fume hood	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minu	ıte.		
Control parameters				
	<i>quire monitoring at the workplace:</i> ant quantities of materials with critical values that have to be monitored at the workplace.			
Additional information: No data Exposure controls				
Personal protective equipment	0///00			
General protective and hygienic mea The usual precautionary measures for l	nandling chemicals should be followed.			
Keep away from foodstuffs, beverages Remove all soiled and contaminated clo	and feēd. othing immediately			
Wash hands before breaks and at the e	nd of work.			
Breathing equipment: Use suitable re-	working environment. spirator when high concentrations are present. term use:			
Recommended filter device for short	term use:	d to determine if air-		
purifying respirators are appropriate.	r PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performe nly use equipment tested and approved under appropriate government standards.			
Protection of hands: Impervious gloves				
Check protective gloves prior to each u	se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Material of gloves Nitrile rubber, NBR				
Material of gloves Nitrile rubber, NBR Penetration time of glove material (in Glove thickness 0.11 mm	minutes) 480			
Eye protection: Safety glasses Body protection: Protective work cloth				
9 Physical and chemical properties				
Information on basic physical and ch				
General Information Appearance:				
Form:	Powder White			
Color: Odor:	Not determined			
Odor threshold: pH-value:	Not determined.			
Change in condition	Not applicable.			
Melting point/Melting range: Boiling point/Boiling range:	135-138 °C (275-280 °F) Not determined			
Sublimation temperature / start:	Not determined			
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Decomposition temperature:	Not determined			
Auto igniting: Danger of explosion:	Not determined. Not determined.			
Explosion limits: Lower:	Not determined			
Upper:	Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water) Viscosity:				
dynamic:	Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity				

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.

Product name: N-Boc-3-trifluoromethyl-L-phenylalanine		
Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides		(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 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 materia Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute ar		
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 undiluted product or large quantities to reach ground water, water con 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.	ourse or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: 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	Not applicable	
Packing group		
	Not applicable Not applicable.	
	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	A1.	
Marine Pollutant (DOT): N UN "Model Regulation": -		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the subs GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable	stance or mixture	

Signal word Not applicable Hazard statements Not applicable

National regulations

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. 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, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male 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.

Product name: N-Boc-3-trifluoromethyl-L-phenylalanine

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	(Contd. of page 3)
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of a conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	suitability of this the product not in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: 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 Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (Second Second Secon	