

1	l Identification Product identifier	
	Product identifier Product name: Nepsilon-Boc-Nalpha-Fmoc-L-lysine	
	Stock number: H59182 CAS Number: 71989-26-9	
	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	
	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 During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.	0789.
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.	
	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)	
	FRE I   REACTIVITY I Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment PBT: Mot annibuses	
	PBT: Not applicable. vPvB: Not applicable.	
3	3 Composition/information on ingredients Chemical characterization: Substances	
	CAS# Description: 71989-26-9 Nepsilon-Boc-Nalpha-Fmoc-L-lysine	
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)	
	Advice for firefighters Protective equipment: Wear self-contained respirator.	
	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	
	See Section 8 for information on personal protection equipment.	(Contd. on page 2)

## See Section 13 for disposal information

Product name: Nepsilon-Boc-Nalpha-Fmoc-L-lysine

(Contd. of page 1)

See Section 13 for disposal information	λ.	(comu. or page r)		
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, includin	•			
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 <b>Specific end use(s)</b> No further relevan	nt information available.			
8 Exposure controls/personal prov Additional information about design Properly operating chemical fume hood				
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 executioneau measures for bandling chemicals chevid be followed				
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 re Protection of hands:	spirator when high concentrations are present.			
Impervious aloves				
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. Penetration time of glove material (in minutes) Not determined				
Eye protection: Safety glasses Body protection: Protective work cloth	, hing.			
9 Physical and chemical properties				
Information on basic physical and chemical properties				
General Information Appearance:				
Form: Odor:	Solid Not determined			
Odor threshold: pH-value:	Not determined. Not applicable.			
Change in condition				
Melting point/Melting range: Boiling point/Boiling range:	130-135 °C (266-275 °F) Not determined			
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.			
Ignition temperature:	Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower:	Not determined Not determined			
Upper: Vapor pressure:	Not applicable.			
Density: Relative density	Not determined Not determined.			
Vapor density Evaporation rate	Not applicable.			
Solubility in / Miscibility with	Not applicable.			
Water: Partition coefficient (n-octanol/water Viscosity:				
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No 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:				

Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide

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Product name: Nepsilon-Boc-Nalpha-Fmoc-L-lysine				
(Contd. of page 2)				
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.				
<b> </b>				
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard Not applicable Hazard statements Not applicable Mational 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 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. 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. 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. 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, famale Substance is not listed. Prop 65 - Developmental toxicity, famale Substance is not listed. Prop 65 - Developmental toxicity, famale Substance is not listed. Prop 65 - Developmental toxicity, famale 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)

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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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