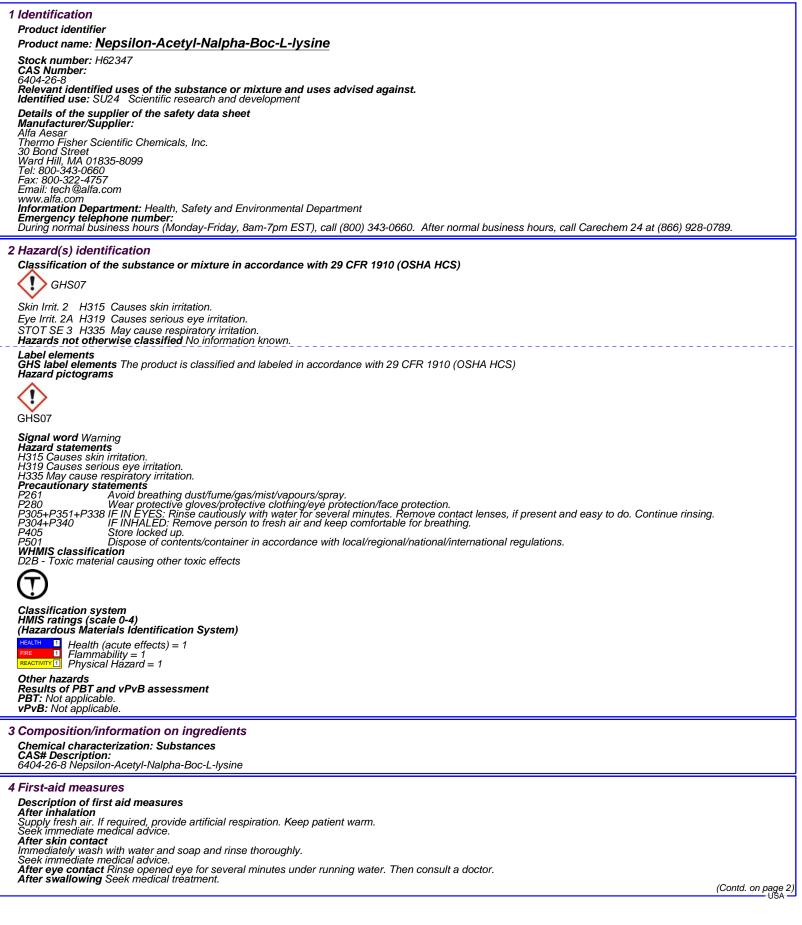


Safety Data Sheet per OSHA HazCom 2012



(Contd. of page 1)

Product name: Nepsilon-Acetyl-Nalpha-Boc-L-lysine 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 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: Ensure adequate ventilation. 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. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workplace. 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 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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eves and skin Avoid contact with the eyes and skin. 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 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 clothing.

9 Physical and chemical properties

Information on basic physical and ch General Information Appearance:	hemical properties	
Form:	Powder	
Color:	White to off-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	
	(Contd. o	n page 3) USA
		USA -

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

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Product name: Nepsilon-Acetyl-Nal	pha-Boc-L-lysine	
		(Contd. of page 2)
Flammability (solid, gaseous)	Not determined. Not determined	
Ignition temperature: Decomposition temperature:	Not determined	
Auto igniting: Danger of explosion:	Not determined. Not determined.	
Danger of explosion: 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:): Not determined.	
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 recom	amondod storago conditions	
Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re Conditions to avoid No further relevan		
Incompatible materials: Oxidizing agents		
Heat		
Hazardous decomposition products: 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		
Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes se	kın ırritation. ərious eve irritation.	
Sensitization: No sensitizing effects kr	nown	
Carcinogenicity: No effects kn Carcinogenicity: No classification data	own. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	wn. • repeated exposure: No effects known.	
Specific farget organ system toxicity	- single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	cts 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		
Toxicity Aquatic toxicity: No further relevant in	formation available	
Persistence and degradability No fun	ther relevant information available.	
Bioaccumulative potential No further Mobility in soil No further relevant info		
Additional ecological information: General notes: Avoid transfer into the		
Results of PBT and vPvB assessmer		
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further relev	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be n	nade 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		
	Not applicable	
Environmental hazards: Special precautions for user	Not applicable. Not applicable.	
	x II of MARPOL73/78 and the IBC Code Not applicable.	
		(Contd. on page 4)
		USA

roduct name: Nepsilon-Acetyl-Nalpha-Boc-I	L-lysine
	(Contd. of page
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	- ·
5 Regulatory information Safety, health and environmental regulations/leg GHS label elements The product is classified and la Hazard pictograms	yislation specific for the substance or mixture abeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P305+P351+P338 IF IN EYES: Rinse cautiously with P304+P340 IF INHALED: Remove person to 1 P405 Store locked up. P501 Dispose of contents/container in 1 National regulations This product is not listed in the U.S. Environmental P to research and development only. This product must product is not listed on the Canadian Domestic SARA Section 313 (specific toxic chemical listing California Proposition 65 Prop 65 - Developmental toxicity, Substance is not Prop 65 - Developmental toxicity, male Substance Information about limitation of use: For use only limitations and prohibitive reg Substance of Very High Concern (SVHC) accordi	e clothing/eyé protection/face protection. th water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. fresh air and keep comfortable for breathing. accordance with local/regional/national/international regulations. Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric st be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This or in formulations for commercial purposes. Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). gs) Substance is not listed. t listed. t listed. t listed. by technically qualified individuals. gulations ing to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. te 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t Authorisation for use) Substance is not listed.
6 Other information Employers should use this information only as a sup information to ensure proper use and protect the hea conformance with this Material Safety Data Sheet, o	pplement to other information gathered by them, and should make independent judgement of suitability of this alth and safety of employees. This information is furnished without warranty, and any use of the product not ir or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Depart Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:	tment ses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)