

L-LYSINE-ALPHA-N-FMOC, EPSILON-N-T-BOC (13C6, 99%; 15N2, 99%) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 22/06/2011 Supersedes: 18/03/2015

Revision date: 30/11/2017

CNIL	N 4	4754		

V	ersion:	4.0
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SECTION 1: Identification of the	substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: L-LYSINE-ALPHA-N-FMOC, EPSILON-N-T-BOC (13C6, 99%; 15N2, 99%)	
EC No	: 276-256-4 (Unlabeled)	
CAS No	: 71989-26-9 (Unlabeled)	
Product code	: CNLM-4754-H	
Formula	: H*N-t-BOC(*CH2)4*CH(*NH-FMOC)*COOH	
Synonyms	: Nα-Fmoc-Nε-Boc-L-lysine / Fmoc-Lys(Boc)-OH	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Professional use	
ndustrial/Professional use spec	: For professional use only	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the sa	ifety data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810		
USA		
JSA: 1-800-322-1174 Int: 1-978-749-800 cilsales@isotope.com www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
SECTION 2: Hazards identification	on	
2.1. Classification of the substance	or mixture	
Classification according to Regulation (I Not classified	EC) No. 1272/2008 [CLP]	
Oleanification according to Direction 67/		
Classification according to Directive 67/2 Not classified	546/EEC [DSD] of 1999/45/EC [DPD]	
GHS-US classification		
Not classified		
Adverse physicochemical, human health and environmental effects No additional information available		
2.2. Label elements		
Labeling according to Regulation (EC) No. 1272/2008 [CLP]		
No labeling applicable		
GHS-US labeling		
No labeling applicable		

No labeling applicable

2.3.	Other hazards		
No addi	ional information available		
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1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-LYSINE-ALPHA-N-FMOC, EPSILON-N-T-BOC (13C6, 99%; 15N2, 99%)	(CAS No) 71989-26-9 (Unlabeled) (EC No) 276-256-4 (Unlabeled) (EC Index No)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-LYSINE-ALPHA-N-FMOC, EPSILON-N-T-BOC (13C6, 99%; 15N2, 99%)	(CAS No) 71989-26-9 (Unlabeled) (EC No) 276-256-4 (Unlabeled) (EC Index No)	100	Not classified

NameProduct identifier%GHS-US classificationL-LYSINE-ALPHA-N-FMOC, EPSILON-N-T-BOC (13C6, 99%;
15N2, 99%)
(Main constituent)(CAS No) 71989-26-9 (Unlabeled)100Not classified

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger a			
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.		
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.		
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.		
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.		
4.2. Most important symptoms and eff	ects, both acute and delayed		
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.		
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.		
Symptoms/injuries after eye contact	: May cause eye irritation.		
Symptoms/injuries after ingestion	: May be harmful if swallowed.		
4.3. Indication of any immediate media	al attention and special treatment needed		
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).		
5.2. Special hazards arising from the s	ubstance or mixture		
No additional information available			
5.3. Advice for firefighters			
Firefighting instructions	 Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. 		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.		
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.			
6.1.2. For emergency responders			
Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			

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6.2. Environmental precautions			
Prevent entry to sewers and public waters. Do	not allow to enter drains or water courses. Avoid release to the environment.		
6.3. Methods and material for containment and cleaning up			
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.		
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.		
6.4. Reference to other sections			
For further information refer to section 13.			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.		
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
7.2. Conditions for safe storage, inclu	ding any incompatibilities		
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.		
Storage conditions	: Store refrigerated (-5 C - 5 C) and dessicated.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/per	rsonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or		
	smoking and when leaving work.		
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.		
Materials for protective clothing	: Wear suitable protective clothing and gloves.		
Hand protection	: Wear suitable protective clothing and gloves.		
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.		
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.		
Respiratory protection Environmental exposure controls	 In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. Avoid release to the environment. 		
SECTION 9: Physical and chemica			
9.1. Information on basic physical and			
Physical state	: Solid		
Appearance Molecular mass	: Solid.		
Color	: 476.49 g/mol (Labeled)		
Color : white. Odor : No data available			
Odor threshold	: No data available		
pH	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: 130 - 135 °C (266 - 275 °F)		
Freezing point	: No data available		

: No data available

: No data available

: No data available

: No data available

No data availableNo data available

Vapor pressure

Boiling point

Flash point

Auto-ignition temperature

Flammability (solid, gas)

Decomposition temperature

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Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Two years after receipt of order if stored as above	ve. Re-QC after two years.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products Carbon oxides (CO, CO2). Nitrogen oxides.	
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Product/Packaging disposal recommendations:	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AI	ON CONTRACT OF CONTRACT.
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Not classified as dangerous in the meaning of transport regulations.
Overland transport No additional information available	
Transport by soa	
Transport by sea No additional information available	
Air transport	
No additional information available	
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
Special transport precautions	: Not classified as dangerous in the meaning of transport regulations.
14.6. Transport in bulk according to Anne	ex II of MARPOL 73/78 and the IBC Code
Not applicable	
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SECTION 15: Regulatory information		
15.1. US Federal regulations		
L-LYSINE-ALPHA-N-FMOC, EPSILON-N-T-BOC (13C6, 99%; 15N2, 99%) (71989-26-9 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
15.2. International regulations		
CANADA		

L-LYSINE-ALPHA-N-FMOC, EPSILON-N-T-BOC (13C6, 99%; 15N2, 99%) (71989-26-9 (Unlabeled)) Listed on the Canadian DSL (Domestic Substances List)

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15.2.1. National regulations

No additional information available

15.3. US State regulations	
L-LYSINE-ALPHA-N-FMOC, EPSILON-N-T-BOC (13C6, 99%; 15N2, 99%)(71989-26-9 (Unlabeled))	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound. NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials. n 0 - Materials that will not burn under typical dire conditions, NFPA fire hazard including intrinsically noncombustible materials such as 0 concrete, stone, and sand. NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions. **HMIS III Rating** Health : 0 Minimal Hazard - No significant risk to health Flammability : 0 Minimal Hazard : 0 Minimal Hazard Physical

CIL Multi-Solvent Mixture SDS

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