

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 2.0

NLM-614

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Supersedes	5. 13/05/

1.1. Product identifier	
Product form	: Substance
Substance name	: L-ALANINE-N-FMOC (15N, 98%)
EC no	: 252-660-6 (Unlabeled)
CAS No	: 117398-49-9
Product code	: NLM-614
Formula	: CH3CH(*NH-FMOC)COOH
Synonyms	: Fmoc-L-alanine / N-(9-Fluorenylmethoxycarbonyl)-L-alanine / Fmoc-Ala-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
Industrial/Professional use spec	: For professional use only.
1.2.2. Uses advised against	
1.2.2. Uses advised against No additional information available	
1.3. Details of the supplier of the sa	arety data sneet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road	
Andover, MA 01810	
USA	
USA: 1-800-322-1174 Int: 1-978-749-80	
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)	
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SECTION 2: Hazards identificati	
2.1. Classification of the substance	e or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified	
Classification apparding to Directive 67	
Classification according to Directive 67/ Not classified	548/EEC OF 1999/45/EC
Not classified	
Classification (GHS-US)	
Not classified	
Adverse physicochemical, human healt	h and environmental effects
No additional information available	
2.2. Label elements	
Labeling according to Regulation (EC)	lo 1272/2008 [CL P]
Labeling according to Regulation (LC) N	

No labeling applicable

GHS-US labeling

No labeling applicable

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-ALANINE-N-FMOC (15N, 98%) (Main constituent)	(CAS No) 117398-49-9 (EC no) 252-660-6 (Unlabeled) (EC index no)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-ALANINE-N-FMOC (15N, 98%) (Main constituent)	(CAS No) 117398-49-9 (EC no) 252-660-6 (Unlabeled) (EC index no)	100	Not classified

Full text of R-, H- and EUH-phrases: see section 16

Name	Product identifier	%	Classification (GHS-US)
L-ALANINE-N-FMOC (15N, 98%) (Main constituent)	(CAS No) 117398-49-9	100	Not 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	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	 If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Wash with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Flush eyes with water as a precaution.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin 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 medica	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the su	ubstance or mixture
Reactivity	: Not available.
5.3. Advice for firefighters	
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	ISURES
6.1. Personal precautions, protective ed	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for containm	
For containment	: Sweep up and shovel. Keep in suitable, closed containers for disposal.

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6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	: Keep container tightly closed in a cool, dry and well-ventilated place.
Storage conditions	: Store refrigerated (-5 C - 5 C) and dessicated.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/	personal protection
8.1. Control parameters	
L-ALANINE-N-FMOC (15N, 98%) (11739	98-49-9)
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	<= mg/kg bodyweight/day
8.2. Exposure controls	
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
SECTION 9: Physical and chemi	ical properties
9.1. Information on basic physical	and chemical properties
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 312.33 g/mol (Labeled)
Color	: White to light yellow.
Odor	: Odourless.
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pН : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : 147 - 153 °C (297 - 307 °F) Freezing point : No data available

Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
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

Odor threshold

: No data available

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	g to rederal Register / vol. //, No. 55 / Monday, March 20, 2012 / Rules and Regulations
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Not available.	
10.2. Chemical stability	
Two years after receipt of order if stored as abo	ve. Re-QC after two years.
10.3. Possibility of hazardous reactions	·
No additional information available	
10.4. Conditions to avoid	
Not available.	
10.5. Incompatible materials	
Strong oxidizing agent.	
10.6. Hazardous decomposition products carbon oxides. Nitrogen oxides.	5
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SECTION 11: Toxicological information	
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	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Results of PBT and vPvB assessment
	tional information available
12.6.	Other adverse effects
No addi	tional information available

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SECTION 13: Disposal considera		
13.1. Waste treatment methods	. Marte metaloka da akada ka dina sa da tanak 1960 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 19	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.	
Waste 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 informati	ion	
In accordance with ADR / RID / ADNR / IMD	DG / ICAO / IATA	
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 dangerous goods.	
Overland transport		
No additional information available		
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 dangerous goods.	
14.6. Transport in bulk according to A	Annex II of MARPOL 73/78 and the IBC Code	
Not applicable		
SECTION 15: Regulatory informa	tion	
15.1. US Federal regulations		
No additional information available		
15.2. International regulations		
CANADA		
L ALANINE N EMOC (15N 98%) (117395		

L-ALANINE-N-FMOC (15N, 98%) (117398-49-9) Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations			
L-ALANINE-N-FMOC (15N, 98%)(117398-49-9)			
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		

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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 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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