

Formula

L-PHENYLALANINE (2,3-13C2, 99%; 15N, 98%)

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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CNLM-7611

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SECTION 1: Identification of	f the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: L-PHENYLALANINE (2,3-13C2, 99%; 15N, 98%)
EC no	: 200-568-1
0.00 N	

CAS No : 63-91-2 (Unlabeled) Product code : CNLM-7611

: *C2C7H11*NO2

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. **Relevant identified uses**

No additional information available

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet 1.3.

Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000 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

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

Classification (GHS-US)

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

Other hazards 2.3.

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-PHENYLALANINE (2,3-13C2, 99%; 15N, 98%) (Main constituent)	(CAS No) 63-91-2 (Unlabeled) (EC no) 200-568-1	100	Not classified
Name	Product identifier	%	Classification according to
Name	Flouet identifier	76	Regulation (EC) No. 1272/2008 [CLP]

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

Name	Product identifier	%	Classification (GHS-US)
L-PHENYLALANINE (2,3-13C2, 99%; 15N, 98%) (Main constituent)	(CAS No) 63-91-2 (Unlabeled)	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 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 off 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
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	sures
	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid dust formation.
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	ent and cleaning up
For containment	: Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	
No additional information available	

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according to Regulation (EC) No. 453/2010 and accord	ding to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
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, inclu	ding any incompatibilities
Technical measures	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: No data available
Appearance	: Crystalline.
Molecular mass	: 168.17
Color	: White to off-white.
Odor	: No data available.
Odor threshold	: No data available
рН	: 5.0 - 7 at 16.5 g/l at 25 °C (77 °F)
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 270 - 275 °C (518 - 527 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: 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	: Water: 16.5 g/l at 20 °C (68 °F) - Completely soluble
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
Explosive limits	: No data available

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available

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10.2.	Chemical stability
Stable in	f stored under recommended conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
No addi	tional information available
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
F	and a fire and different Order and the entry solid of (NOC)

Formed under fire conditions: Carbon oxides, nitrogen oxides (NOx).

SECTION 11: Toxicological informat	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified No data available pH: 5.0 - 7 at 16.5 g/l at 25 °C (77 °F)
Serious eye damage/irritation	: Not classified No data available pH: 5.0 - 7 at 16.5 g/l at 25 °C (77 °F)
Respiratory or skin sensitization	: Not available
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	: 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.

SECTI	SECTION 12: Ecological information		
12.1.	Toxicity		
No addit	ional information available		

12.2. Persistence and degradability		
L-PHENYLALANINE (2,3-13C2, 99%; 15N, 98%) (63-91-2 (Unlabeled))		
Persistence and degradability	Not available.	
12.3. Bioaccumulative potential		
L-PHENYLALANINE (2,3-13C2, 99%; 15N, 98	%) (63-91-2 (Unlabeled))	
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
L-PHENYLALANINE (2,3-13C2, 99%; 15N, 98%	%) (63-91-2 (Unlabeled))	
Ecology - soil	Not available.	
12.5. Results of PBT and vPvB assessmer	it	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: Not available.	

Safety Data Sheet

Cording to Regulation (EC) No. 453/2010 and a	ccording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
SECTION 13: Disposal consider	rations
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.
SECTION 14: Transport informa	tion
In accordance with ADR / RID / ADNR / IM	/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	o Annex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory inform	ation
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
15.2. International regulations CANADA	

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations

L-PHENYLALANINE (2,3-13C2, 99%; 15N, 98%)(63-91-2 (Unlabeled))		
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	1
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