

L-LEUCINE MICROBIOLOGICAL/PYROGEN TESTED (1-13C, 99%; 15N, 98%+)

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: 11/04/2013 Revision date: 15/08/2022 Supersedes: 28/04/2016 Version: 3.0 CNLM-615-MPT

	ostance/mixture and of the company/undertaking	
1.1. Product identifier	. Substance	
Product form Substance name	: Substance : L-LEUCINE MICROBIOLOGICAL/PYROGEN TESTED (1-13C, 99%; 15N, 98%+)	
EC-No.	: 200-522-0 (Unlabeled)	
CAS-No.	: 61-90-5 (Unlabeled)	
Product code	: CNLM-615-MPT	
Formula	: (CH3)2CHCH2CH(*NH2)*COOH	
Synonyms	: (S)-2-Amino-4-methylpentanoic acid	
	stance 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		
No additional information available		
1.3. Details of the supplier of the safety	data sheet	
Cambridge Isotope Laboratories, Inc.		
50 Frontage Road Andover, MA 01810		
USA		
USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> 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 n	nixture	
Classification according to Regulation (EC) I		
Not classified		
Classification according to Directive 67/548/	EEC [DSD] or 1999/45/EC [DPD]	
Not classified		
GHS-US classification		
Not classified		
Adverse physicschemiset human haatte and	l anviranmental effects	
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

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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

2.3. **Other hazards**

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-LEUCINE MICROBIOLOGICAL/PYROGEN TESTED (1- 13C, 99%; 15N, 98%+)	(CAS-No.) 61-90-5 (Unlabeled) (EC-No.) 200-522-0 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No.
			1272/2008 [CLP]

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

Name	Product identifier	%	GHS-US classification
L-LEUCINE MICROBIOLOGICAL/PYROGEN TESTED (1- 13C, 99%; 15N, 98%+) (Main constituent)	(CAS-No.) 61-90-5 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

3.2. **Mixtures** Not applicable SECTION 4: First aid measures **Description of first aid measures** 4.1 First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet. 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. Most important symptoms and effects, both acute and delayed 4.2. Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/effects after skin contact : May be harmful if absorbed through skin. May cause skin irritation. : Contact may cause eye irritation. Symptoms/effects after eye contact Symptoms/effects after ingestion : May be harmful if swallowed. 4.3. Indication of any immediate medical 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. Special hazards arising from the substance or mixture 5.2 No additional information 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. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective eq	uipment and emergency procedures	
6.1.1.	For non-emergency personnel		
Emergen	cy procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.	
6.1.2.	For emergency responders		
No additi	onal information available		

be safe.

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6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for containment	nt 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	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	. Further processing of colid materials may result in the formation of computible ducts. The
Additional hazards when processed	: 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. Normal measures for preventive fire protection.
7.2. Conditions for safe storage, includin	g any incompatibilities
Technical measures	: Keep container tightly closed in a dry and well-ventilated place.
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	nal 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.
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 chemical p	roperties
9.1. Information on basic physical and ch	nemical properties
Physical state	: Solid
Appearance	: Powder
Molecular mass	: 133.16 g/mol (Labeled)
Color	: White
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: > 300 °C (> 572 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	 No data available No data available
Vapor pressure Relative vapor density at 20 °C	: No data available
Relative density	: 1.293 g/cm3 at 18 °C (64 °F)
Solubility	: Water: 23 g/l at 25 °C (77 °F) - completely miscible

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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	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
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, Nitrogen oxides	
-	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
L LEUGINE MICROPIOLOGICAL /DVDOCT	
L-LEUCINE MICROBIOLOGICAL/PYROGEN	TESTED (1-13C, 99%; 15N, 98%+) (61-90-5 (Unlabeled))
LD50 oral rat	> 16000 mg/kg male and female
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease.
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. : Not classified
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease.
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LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Ames test. S. typhimurium result: negative
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Ames test. S. typhimurium result: negative Not classified
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Ames test. S. typhimurium result: negative Not classified Not classified Not classified Not classified Not classified Not classified
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LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Ames test. S. typhimurium result: negative Not classified
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure L-LEUCINE MICROBIOLOGICAL/PYROGEN	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Arnes test. S. typhimurium result: negative Not classified Not classified Not classified Not classified Not classified Not classified
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure L-LEUCINE MICROBIOLOGICAL/PYROGENT NOAEL (oral,rat,90 days)	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Ames test. S. typhimurium result: negative Not classified Not classified Not classified Not classified Not classified Statistica Not classified Statistica Statistica Not classified Not classified Statistica Not classified Statistica Statistica Not classified Not classified Statistica S
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure L-LEUCINE MICROBIOLOGICAL/PYROGEN NOAEL (oral,rat,90 days) Aspiration hazard	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Ames test. S. typhimurium result: negative Not classified Not classified Not classified Not classified Not classified Sot classified Not classified
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure L-LEUCINE MICROBIOLOGICAL/PYROGEN NOAEL (oral,rat,90 days)	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Ames test. S. typhimurium result: negative Not classified Not classified Not classified Not classified Not classified Statistica Not classified Statistica Statistica Not classified Not classified Statistica Not classified Statistica Statistica Not classified Not classified Statistica S
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure L-LEUCINE MICROBIOLOGICAL/PYROGEN NOAEL (oral,rat,90 days) Aspiration hazard Potential Adverse human health effects and	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Arnes test. S. typhimurium result: negative Not classified The levorotary (I) forms of leucine, isoleucine, and valine have been found to have tumor-promoting activity for bladdar carcinomas. 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
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure L-LEUCINE MICROBIOLOGICAL/PYROGEN T NOAEL (oral,rat,90 days) Aspiration hazard Potential Adverse human health effects and symptoms	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Arnes test. S. typhimurium result: negative Not classified Sat0 mg/kg bodyweight/day female Not classified The levorotary (l) forms of leucine, isoleucine, and valine have been found to have tumor-promoting activity for bladdar carcinomas. 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.
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure L-LEUCINE MICROBIOLOGICAL/PYROGEN NOAEL (oral,rat,90 days) Aspiration hazard Potential Adverse human health effects and symptoms/effects after inhalation	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Ames test. S. typhimurium result: negative Not classified Intervention (1) forms of leucine, isoleucine, and valine have been found to have tumor-promoting activity for bladdar carcinomas. 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. May be harmful if inhaled. May cause respiratory tract irritation.
LD50 oral rat LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure L-LEUCINE MICROBIOLOGICAL/PYROGENT NOAEL (oral,rat,90 days) Aspiration hazard Potential Adverse human health effects and symptoms/effects after inhalation Symptoms/effects after skin contact	 > 16000 mg/kg male and female Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease. Not classified Not classified Not classified Ames test. S. typhimurium result: negative Not classified Int classified Not classified Not classified Not classified Int classified Not classified Not classified Int classified Int classified Int classified Intervention (I) forms of leucine, isoleucine, and valine have been found to have tumor-promoting activity for bladdar carcinomas. 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. May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.

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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
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 assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
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 / ADN	l l
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 Annex	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-LEUCINE MICROBIOLOGICAL/PYROGEN T	ESTED (1-13C, 99%; 15N, 98%+) (61-90-5 (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-LEUCINE MICROBIOLOGICAL/PYROGEN TESTED (1-13C, 99%; 15N, 98%+) (61-90-5 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

L-LEUCINE MICROBIOLOGICAL/PYROGEN TESTED (1-13C, 99%; 15N, 98%+)(61-90-5 (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	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - 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.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance 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