

### 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: 14/02/2013 Revision date: 03/08/2022 Supersedes: 28/04/2016 Version: 3.0 ULM-8203-MPT

SECTION 1. Identification of the cub	stance/mixture and of the company/undertaking	
1.1. Product identifier	stance/mixture and or the company/undertaking	
Product form	: Substance	
Substance name	: L-LEUCINE UNLABELED MICROBIOLOGICAL/PYROGEN TESTED	
EC-No.	: 200-522-0	
CAS-No.	: 61-90-5	
Product code	: ULM-8203-MPT	
Formula	: (CH3)2CHCH2CH(NH2)COOH	
Synonyms	: (S)-2-Amino-4-methylpentanoic acid	
1.2. Relevant identified uses of the subs	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		
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 n	nixture	
Classification according to Regulation (EC) N	lo. 1272/2008 [CLP]	
Not classified		
Classification according to Directive 67/548/E	EC [DSD] or 1999/45/EC [DPD]	
Not classified		
GHS-US classification		
Not classified		
Adverse physicschemical, human haalth and environmental 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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### 2.3. Other hazards

### No additional information available

SECTION 3: Composition/Information on ingredients			
Product identifier	%	Classification according to Directive 67/548/EEC	
(CAS-No.) 61-90-5 (EC-No.) 200-522-0	100	Not classified	
Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
(CAS-No.) 61-90-5 (EC-No.) 200-522-0	100	Not classified	
	Product identifier         (CAS-No.) 61-90-5         (EC-No.) 200-522-0         Product identifier         (CAS-No.) 61-90-5	Product identifier         %           (CAS-No.) 61-90-5 (EC-No.) 200-522-0         100           Product identifier         %           (CAS-No.) 61-90-5         100	

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

Name	Product identifier	%	GHS-US classification
L-LEUCINE UNLABELED MICROBIOLOGICAL/PYROGEN TESTED (Main constituent)	(CAS-No.) 61-90-5	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 measure	S
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.
4.2. Most important symptoms and e	effects, both acute and delayed
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.
Symptoms/effects after eye contact	: Contact may cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
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	e substance or mixture
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 be safe.
<b>SECTION 6: Accidental release m</b>	neasures
6.1. Personal precautions, protective	e equipment 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

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6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for conta	inment 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 storag	le
7.1. Precautions for safe handling	
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, inc	luding 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/p	ersonal 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.
Eye protection	<ul> <li>Wear safety glasses with side shields (or goggles) and a face shield.</li> <li>Choose body protection according to the amount and concentration of the dangerous</li> </ul>
Eye protection Skin and body protection	<ul> <li>Wear safety glasses with side shields (or goggles) and a face shield.</li> <li>Choose body protection according to the amount and concentration of the dangerous substance at the work place.</li> </ul>
Eye protection Skin and body protection Respiratory protection	<ul> <li>Wear safety glasses with side shields (or goggles) and a face shield.</li> <li>Choose body protection according to the amount and concentration of the dangerous substance at the work place.</li> <li>When appropriate, use NIOSH/CEN approved respirator.</li> </ul>
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EN (English US)

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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

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
No addi	itional information available		
10.2.	Chemical stability		
Stable i	f stored under recommended conditions.		
10.3.	Possibility of hazardous reactions		
No addi	No additional information available		
10.4.	Conditions to avoid		
No addi	itional information available		
10.5.	Incompatible materials		
Strong	oxidizing agents.		
10.6.	Hazardous decomposition products		

Carbon oxides, Nitrogen oxides

## **SECTION 11: Toxicological information**

effects

11.1.	Information	on	toxicological	
	ovicity			

Acute toxicity	: Not classified			
L-LEUCINE UNLABELED MICROBIOLOGIC	AL/PYROGEN TESTED (61-90-5)			
LD50 oral rat	> 16000 mg/kg male and female			
LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks	Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease.			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitization	: Not classified			
Germ cell mutagenicity	: Ames test. S. typhimurium result: negative			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
Specific target organ toxicity – single exposure	: Not classified			
Specific target organ toxicity – repeated exposure	: Not classified			
L-LEUCINE UNLABELED MICROBIOLOGIC	AL/PYROGEN TESTED (61-90-5)			
NOAEL (oral,rat,90 days)	3840 mg/kg bodyweight/day female			
Aspiration hazard	: Not classified			
Potential Adverse human health effects and symptoms	: 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 of the product.			
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.			

Symptoms/effects after eye contact	•	Contact may	v cause ev	e irritation.
Cymptoms/checks after cyc contact		Contact ma	y cause eg	c milation.

: May be harmful if swallowed.

Symptoms/effects after ingestion

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12.2. Persistence and	degradability	
No additional information a	vailable	
12.3. Bioaccumulative	e potential	
No additional information a	vailable	
12.4. Mobility in soil		
No additional information a	vailable	
12.5. Results of PBT	and vPvB assessment	
No additional information a	vailable	
12.6. Other adverse e	ffects	
No additional information a	vailable	
<b>SECTION 13: Dispos</b>	al 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 disposa	I 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.
<b>SECTION 14: Transp</b>	ort information	
In accordance with ADR / F	RID / IMDG / IATA / ADN	N
14.1. UN number		
Not applicable		
14.2. UN proper shipp	bing name	
Not applicable		
14.3. Additional infor		
Other information	:	No supplementary information available.
Special transport precaution	ns :	Not dangerous goods.
Overland transport		
Overland transport No additional information a	vailable	
	Valiable	
Transport by sea		
No additional information a	vailable	
Air transport		
No additional information a	vailable	
14.4. Environmental h	azards	
Other information	:	No supplementary information available.
14.5. Special precaut	ons for user	
Special transport precaution		Not dangerous goods.
14.6. Transport in bul	k according to Annex	II of MARPOL 73/78 and the IBC Code
Not applicable		

Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
L-LEUCINE UNLABELED MICROBIOLOGICAL/PYROGEN TESTED (61-90-5)		
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.	

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#### 15.2. International regulations

#### CANADA

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

5 5		
L-LEUCINE UNLABELED MICROBIOLOGICAL/PYROGEN TESTED(61-90-5)		
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** : This product is not radioactive. The data given for this product are those of the corresponding Other information 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 0 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 : 0 Minimal Hazard Physical

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