

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: 08/08/2018 Revision date: Version: 1.0 CLM-10684

SECT	ON 1: Identification of the su	bstance/mixture and of the company/undertaking	
1.1.	Product identifier		
Product	form	: Substance	
Substan	ce name	: L-LEUCINE:HCL (1-13C, 99%)	
CAS-No		: 760-84-9 (Unlabeled)	
Product	code	: CLM-10684	
Formula	1	: C5*CH13NO2·HCL	
1.2.	Relevant identified uses of the sub	stance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
Main us	e category	: Professional use	
	al/Professional use spec	: For professional use only	
1.2.2.	Uses advised against		
No addi	tional information available		
1.3.	Details of the supplier of the safety	/ data sheet	
50 Fron Andove USA	dge Isotope Laboratories, Inc. tage Road r, MA 01810		
	-800-322-1174 Int: 1-978-749-8000 @isotope.com www.isotope.com		
	Emergency telephone number		
Emerge	ncy numbers:		
	ec: 1-800-424-9300 (24 hours) onal: 1-703-741-5970 (24 hours)		
SECT	ON 2: Hazards identification		
2.1.	Classification of the substance or	mixture	
Classifi	cation according to Regulation (EC)	No. 1272/2008 [CLP]	
Not clas			
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified			
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 labe	ing applicable		
GHS-US	Slabeling		

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-LEUCINE:HCL (1-13C, 99%)	(CAS-No.) 760-84-9 (Unlabeled) (EC Index-No.)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-LEUCINE:HCL (1-13C, 99%)	(CAS-No.) 760-84-9 (Unlabeled) (EC Index-No.)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-LEUCINE:HCL (1-13C, 99%) (Main constituent)	(CAS-No.) 760-84-9 (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 general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.		
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 effe	ects, both acute and delayed		
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.		
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.		
Symptoms/effects after eye contact	: May cause eye irritation.		
Symptoms/effects after ingestion	: May be harmful if swallowed.		
4.3. Indication of any immediate medic	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			
Carbon oxides (CO, CO2), nitrogen oxides (NO	Dx), nyarogen chionae gas.		
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.		
<b>SECTION 6: Accidental release mea</b>	asures		
6.1. Personal precautions, protective e	quipment 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".		
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.

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6.3. Methods and material for contain	nent and cleaning up
For containment	: Clean up any spills as soon as possible, using an absorbent material to collect it. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe 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.	
<b>SECTION 7: Handling and storage</b>	
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. Handle in accordance with good industrial hygiene and safety practice.
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 at room temperature away from light and moisture.
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	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls	: Avoid release to the environment.
<b>SECTION 9: Physical and chemica</b>	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Appearance	: Clear, Liquid.
Molecular mass	: 168.63 g/mol (Labeled)
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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Vapor pressure

Auto-ignition temperature

Decomposition temperature Flammability (solid, gas)

: No data available

: No data available

: No data available

: No data available

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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

<b>SECTION 10: Stability and reactivity</b>					
10.1. Reactivity					
No additional information available					
10.2. Chemical stability					
Stable if stored under recommended conditions.					
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	3				
Carbon oxides (CO, CO2), nitrogen oxides (NO	x), hydrogen chloride gas.				
<b>SECTION 11: Toxicological informat</b>	ion				
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	: Not classified				
exposure					
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				

## : May be harmful if inhaled. May cause respiratory irritation. : May be harmful in contact with skin. May cause moderate irritation.

- : May cause eye irritation.
  - : May be harmful if swallowed.

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

construed as guaranteeing any specific property of the product.

12.2.	Persistence and degrada	bility
No addit	ional information available	

Symptoms/effects after inhalation

Symptoms/effects after skin contact

Symptoms/effects after eye contact

Symptoms/effects after ingestion

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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	ns
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	
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.
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.
14.6. Transport in bulk according to Anne	ex II of MARPOL 73/78 and the IBC Code
Not applicable	

SECTION 15: Regulatory information				
5.1. US Federal regulations				
L-LEUCINE:HCL (1-13C, 99%) (760-84-9 (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.			

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# 15.2. International regulations CANADA L-LEUCINE:HCL (1-13C, 99%) (760-84-9 (Unlabeled)) Listed on the Canadian DSL (Domestic Substances List)

### **National regulations** 15.2.1.

No additional information available

15.3. US State regulations				
L-LEUCINE:HCL (1-13C, 99%)(760-84-9 (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.
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