

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: 3.0

CLM-8742

1/6/12/011	uale.	03/00/20

1.1. Product identifier	e substance/mixture and of the company/undertaking		
Product form	: Substance		
Substance name	: L-ALLO-ISOLEUCINE (13C6, 97-99%)		
EC no	: 216-142-3 (Unlabeled)		
CAS No	: 1509-34-8 (Unlabeled)		
Product code	: CLM-8742		
Formula	: *C6H13NO2		
Synonyms	: (2S,3R)-2-Amino-3-methylpentanoic acid / L-Alloisoleucine		
1.2. Relevant identified uses of the	e 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 s	safety data sheet		
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)			
SECTION 2: Hazards identificat			
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			
INOL CLASSIFIED	GHS-US classification		
GHS-US classification			

No additional information available

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

### **GHS-US** labelling

No labelling 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-ALLO-ISOLEUCINE (13C6, 97-99%) (Main constituent)	(CAS No) 1509-34-8 (Unlabeled) (EC no) 216-142-3 (Unlabeled) (EC index no)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-ALLO-ISOLEUCINE (13C6, 97-99%) (Main constituent)	(CAS No) 1509-34-8 (Unlabeled) (EC no) 216-142-3 (Unlabeled) (EC index no)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-ALLO-ISOLEUCINE (13C6, 97-99%) (Main constituent)	(CAS No) 1509-34-8 (Unlabeled)	100	Not classified

#### Full text of H-phrases: see section 16

3.2. Mixture			
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	<ul> <li>If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.</li> </ul>		
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 effect	ts, 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 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.		
5.2. Special hazards arising from the sul	bstance 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 measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel Emergency procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.		
Emergency procedures	. Avoid dust formation. Avoid breathing vapors, mist of gas.		
6.1.2. For emergency responders			
No additional information available			
6.2. Environmental precautions			
Do not let product enter drains.			
6.3. Methods and material for containment and cleaning up			
For containment	: Sweep up and shovel. Keep in suitable, closed containers for disposal.		
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<u> </u>	
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stor	age
7.1. Precautions for safe handlin	
Precautions for safe handling	: Provide good ventilation in process area to prevent formation of vapour.
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,	including any incompatibilities
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
<b>SECTION 8: Exposure control</b>	s/personal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before
Appropriate engineering controls	breaks and at the end of workday.
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 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.
<b>SECTION 9: Physical and cher</b>	nical properties
9.1. Information on basic physica	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 137.13 g/mol (Labeled)

Colour

Odour

pН

Odour threshold

Melting point

Boiling point

Flash point

Freezing point

Self ignition temperature

Flammability (solid, gas)

Vapour pressure

Relative density

Viscosity, kinematic

Viscosity, dynamic

Explosive properties

Solubility

Log Pow

Log Kow

Decomposition temperature

Relative vapour density at 20 °C

Relative evaporation rate (butylacetate=1)

: white.

: No data available

: No data available

: No data available

: No data available

No data availableNo data available

: No data available

: No data available

: No data available

No data availableNo data available

: No data available

: No data available

: No data available

No data availableNo data available

: No data available

No data availableNo data available

: 285 °C (545 °F)

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Oxidising 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	
Stable if stored under recommended conditions.	
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.	
<b>SECTION 11: Toxicological informat</b>	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
L-ALLO-ISOLEUCINE (13C6, 97-99%) (1509-3	34-8 (Unlabeled))
Intraperitoneal - rat - 6,954 mg/kg Remarks	Lungs, Thorax or Respiration
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: 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 bee 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.
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 assessme	nt
No additional information available	
12.6. Other adverse effects No additional information available	
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SECTION 13: Disposal consideration	ons
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.
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.
<b>SECTION 14: Transport informatio</b>	n
In accordance with ADR / RID / ADNR / IMDG	/ 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 An	nex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	on
15.1. US Federal regulations	
No additional information available	

CANADA
L-ALLO-ISOLEUCINE (13C6, 97-99%) (1509-34-8 (Unlabeled))
Listed on the Canadian DSL (Domestic Sustances List) inventory.

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

L-ALLO-ISOLEUCINE (13C6, 97-99%)(1509-34-8 (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**

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