

## L-ALANINE (13C3, 99%)

### 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: 20/02/2013 Revision date: 17/08/2022 Supersedes: 20/05/2016 Version: 4.0 CLM-2184-H

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Substance Substance name : L-ALANINE (13C3, 99%) FC-No. : 200-273-8 (Unlabeled) CAS-No. : 100108-77-8 Product code : CLM-2184-H Formula : \*CH3\*CH(NH2)\*COOH : (S)-2-Aminopropionic acid / L-alpha-Aminoproprionic acid Synonyms 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. **Relevant identified uses** : Professional use Main use category 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 mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified 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 Label elements 2.2.

Labeling according to Regulation (EC) No. 1272/2008 [CLP] No labeling applicable

### **GHS-US** labeling

No labeling applicable

#### 2.3. Other hazards

No additional information available

17/08/2022

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SECTION 3: Composition/Information on ingredients			
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-ALANINE (13C3, 99%)	(CAS-No.) 100108-77-8 (EC-No.) 200-273-8 (Unlabeled) (EC Index-No.)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-ALANINE (13C3, 99%)	(CAS-No.) 100108-77-8 (EC-No.) 200-273-8 (Unlabeled) (EC Index-No.)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-ALANINE (13C3, 99%) (Main constituent)	(CAS-No.) 100108-77-8	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	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.	
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	ffects, 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	: May cause eye irritation.	
Symptoms/effects after ingestion	: May be harmful if swallowed.	
4.3. Indication of any immediate med	ical attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures	S	
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	substance 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.	
6.1.2. For emergency responders		
No additional information available		
6.2. Environmental precautions		
Browent entry to servers and public waters		

Prevent entry to sewers and public waters.

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6.3. Methods and material for containme	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	
SECTION 7: Handling and storage	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: 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.
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, includ	ing any incompatibilities
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION & Experime controls/por	a characterian
SECTION 8: Exposure controls/pers	
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.
<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Crystalline.
Molecular mass	: 92.07 g/mol (Labeled)
Color	: white.
Odor	: Odourless.
Odor threshold	: No data available
рН	: 5.5 - 7 at 89.1 g/l at 25 °C (77 °F)
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 314.5 °C (591.1 °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
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.432 g/cm3 at 20 °C (68 °F)
Solubility	: Water: 89.1 g/l at 20 °C (68 °F) - completely soluble
•	: -2.74 at 20 °C (68 °F)
Log Pow	: No data available
Log Kow	
Viscosity, kinematic	: No data available

Viscosity, dynamic

: No data available

EN (English US)

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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	
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.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
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L-ALANINE (13C3, 99%) (100108-77-8)	
•	<ul> <li>&gt; 5110 mg/kg male and female</li> </ul>
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L-ALANINE (13C3, 99%) (100108-77-8) LD50 oral rat	> 5110 mg/kg male and female
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L-ALANINE (13C3, 99%) (100108-77-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation	<ul> <li>&gt; 5110 mg/kg male and female</li> <li>Not classified pH: 5.5 - 7 at 89.1 g/l at 25 °C (77 °F)</li> <li>Not classified pH: 5.5 - 7 at 89.1 g/l at 25 °C (77 °F)</li> </ul>
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SECTION 12: Ecological information	
12.1. Toxicity	
L-ALANINE (13C3, 99%) (100108-77-8)	
EC50 Daphnia 1	> 100 mg/l static test - Daphnia magna (Water flea) - 48 h
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
L-ALANINE (13C3, 99%) (100108-77-8)	
Log Pow	-2.74 at 20 °C (68 °F)

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12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmer	it in the second se
No additional information available	
12.6. Other adverse effects	
No additional information available	
<b>SECTION 13: Disposal consideration</b>	S
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 / AD	DN .
14.1. UN number	
Not applicable	
14.2.UN proper shipping nameNot 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 Anne	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	

## CANADA

L-ALANINE (13C3, 99%) (100108-77-8) Listed on the Canadian DSL (Domestic Substances List)

### 15.2.1. National regulations

No additional information available

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15.3. US State regulations	
L-ALANINE (13C3, 99%)(100108-77-8)	
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 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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