

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: 4.0

**CDLM-8649** 

SECTION 1: Identification of the	substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form Substance name EC no CAS No Product code Formula Synonyms	<ul> <li>Substance</li> <li>L-ALANINE (3-13C, 99%; 2-D, 96%)</li> <li>200-273-8 (Unlabeled)</li> <li>56-41-7 (Unlabeled)</li> <li>CDLM-8649</li> <li>*CH3CD(NH2)COOH</li> <li>(S)-2-Aminopropionic acid</li> <li>L-alpha-Aminoproprionic acid</li> </ul>	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
<ul> <li>1.2.1. Relevant identified uses</li> <li>Main use category</li> <li>Industrial/Professional use spec</li> <li>1.2.2. Uses advised against</li> <li>No additional information available</li> </ul>	<ul><li>Professional use</li><li>For professional use only.</li></ul>	
1.3. Details of the supplier of the sa	afety data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-800 <u>cilsales@isotope.com</u> www.isotope.com	00	
Emergency telephone number		
Emergency numbers: Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
<b>SECTION 2: Hazards identification</b>	on	
2.1. Classification of the substance		
Classification according to Regulation (I Not classified	EC) No. 1272/2008 [CLP]	
Classification according to Directive 67/548/EEC or 1999/45/EC Not classified		
Classification (GHS-US) Not classified		
Adverse physicochemical, human health No additional information available	and environmental effects	
2.2. Label elements		
Labeling according to Regulation (EC) N	lo. 1272/2008 [CLP]	
No labeling applicable		

**GHS-US** labeling

No labeling applicable

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#### 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-ALANINE (3-13C, 99%; 2-D, 96%) (Main constituent)	(CAS No) 56-41-7 (Unlabeled) (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 (3-13C, 99%; 2-D, 96%) (Main constituent)	(CAS No) 56-41-7 (Unlabeled) (EC no) 200-273-8 (Unlabeled) (EC index no)	100	Not classified	

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

Name	Product identifier	%	Classification (GHS-US)
L-ALANINE (3-13C, 99%; 2-D, 96%) (Main constituent)	(CAS No) 56-41-7 (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	: 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 effect	cts, 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 medica	I 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 su	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 mea	
	uipment and emergency procedures
	uipment and emergency procedures
6.1.1. For non-emergency personnel	. Avoid duct formation. Avoid brackhing vanage mist or and
Emergency procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.
6.1.2. For emergency responders	
6.1.2. For emergency responders No additional information available	
No additional information available	

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6.3. Methods and material for containme	
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	
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, including	
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/perse	onal 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.
<b>SECTION 9: Physical and chemical p</b>	properties
9.1. Information on basic physical and c	
Physical state	: Solid
Appearance	: Crystalline.
Molecular mass	: 91.09 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
Self 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
Log Pow	: -2.74 at 20 °C (68 °F)
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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SECTION 12: Ecological information				
12.1. Toxicity				
L-ALANINE (3-13C, 99%; 2-D, 96%) (56-41-7 (U	Inlabeled))			
EC50 Daphnia 1	> 100 mg/l static test - Daphnia magna (Water flea) - 48 h			
12.2. Persistence and degradability				
No additional information available	No additional information available			
12.3. Bioaccumulative potential				
L-ALANINE (3-13C, 99%; 2-D, 96%) (56-41-7 (Unlabeled))				
Log Pow	-2.74 at 20 °C (68 °F)			

EN (English US)

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12.4. Mobility in soil No additional information available				
12.5. Results of PBT and vPvB assessmen	nt			
No additional information available				
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal consideration	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.			
Waste disposal recommendations	<ul> <li>Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.</li> </ul>			
Ecology - waste materials	: Dispose of as unused product.			
SECTION 14: Transport information				
In accordance with ADR / RID / ADNR / IMDG / I	CAO / 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 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 (3-13C, 99%; 2-D, 96%) (56-41-7 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 15.2.1. National regulations

No additional information available

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15.3. US State regulations		
L-ALANINE (3-13C, 99%; 2-D, 96%)(56-41-7 (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.	

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**

: 0 Minimal Hazard - No significant risk to health
: 0 Minimal Hazard
: 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