

# L-ALANINE (3,3,3-D3, 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: 16/06/2011 Revision date: 11/08/2022 Supersedes: 05/08/2021 Version: 5.1

DLM-248

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

 Substance name
 : L-ALANINE (3,3,3-D3, 99%)

 EC-No.
 : 200-273-8 (Unlabeled)

CAS-No. : 63546-27-0 Product code : DLM-248

Formula : CD3CH(NH2)COOH

Synonyms : (S)-2-Aminopropionic acid; L-alpha-Aminoproprionic acid

## 1.2. Relevant identified uses of the 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

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 <u>cilsales@isotope.com</u> 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

### 2.2. Label elements

# 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

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# L-ALANINE (3,3,3-D3, 99%) DLM-24

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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 (3,3,3-D3, 99%)	(CAS-No.) 63546-27-0 (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 (3,3,3-D3, 99%)	(CAS-No.) 63546-27-0 (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 (3,3,3-D3, 99%) (Main constituent)	(CAS-No.) 63546-27-0	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 with water. Consult a

physician.

# 4.2. Most important symptoms and 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 : May cause eye irritation.

Symptoms/effects 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 : Suitable extinguishing agents: Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

# 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.

# **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

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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#### 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.

### 6.3. Methods and material for containment and cleaning up

For containment : Take up mechanically (sweeping, shoveling) and collect in suitable container for 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.

# **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 : 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.

# Conditions for safe storage, including 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/personal 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 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.

Environmental exposure controls : Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Crystalline

Molecular mass : 92.11 g/mol (Labeled)

Color : White
Odor : Odourless
Odor threshold : No data available

pH : 5.5 - 7 at 89.1 g/l at 25 °C (77 °F)

Relative evaporation rate (butyl acetate=1)

Melting point

Freezing point

Boiling point

Flash point

Cuto-ignition temperature

Relative evaporation rate (butyl acetate=1)

No data available

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: No data available Flammability (solid, gas) : No data available Vapor pressure Relative vapor density at 20 °C : No data available

Relative density : 1.432 g/cm3 at 20 °C (68 °F)

: Water: 89.1 g/l at 20 °C (68 °F) - completely soluble Solubility

Log Pow : -2.74 at 20 °C (68 °F) : No data available Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic Explosive properties No data available Oxidizing properties : No data available **Explosion limits** : No data available

### Other information

No additional information available

# SECTION 10: Stability and reactivity

### Reactivity

No additional information available

### **Chemical stability**

Stable if stored under recommended conditions.

### Possibility of hazardous reactions

No additional information available

### **Conditions to avoid**

No additional information available

### Incompatible materials

Strong oxidizing agent

# **Hazardous decomposition products**

Carbon oxides, Nitrogen oxides

# **SECTION 11: Toxicological information**

# Information on toxicological effects

: Not classified Acute toxicity

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L-ALANINE (3,3,3-D3, 99%) (63546-27-0)	ANINE (3,3,3-D3, 99%) (63546-27-0)	
LD50 oral rat		> 5110 mg/kg male and female
Skin corrosion/irritation	:	Not classified
		pH: 5.5 - 7 at 89.1 g/l at 25 °C (77 °F)
Serious eye damage/irritation	:	Not classified
		pH: 5.5 - 7 at 89.1 g/l at 25 °C (77 °F)
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 exposure	:	Not classified
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 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	:	May cause eye irritation.
Symptoms/effects after ingestion	:	May be harmful if swallowed.

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# **SECTION 12: Ecological information**

#### **Toxicity**

Ecology - general The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

### L-ALANINE (3,3,3-D3, 99%) (63546-27-0)

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 (3,3,3-D3, 99%) (63546-27-0)

Log Pow -2.74 at 20 °C (68 °F)

#### 12.4. Mobility in soil

No additional information available

### Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

### Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local

environmental control regulations.

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed Product/Packaging disposal recommendations

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 / ADN

#### **UN** number 14.1.

Not applicable

#### **UN proper shipping name** 14.2.

Not applicable

#### 14.3. **Additional information**

Other information : No supplementary information available.

: DOT/IMDG/IATA: Not dangerous goods. Special transport precautions

# 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

: DOT/IMDG/IATA: Not dangerous goods. Special transport precautions

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information					
15.1. US Federal regulations					
L-ALANINE (3,3,3-D3, 99%) (63546-27-0)					
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				

# 15.2. International regulations

### **CANADA**

L-ALANINE (3,3,3-D3, 99%) (63546-27-0)
Listed on the Canadian DSL (Domestic Substances List)

#### **National regulations**

No additional information available

## 15.3. US State regulations

Total de Citato l'Ogulationo		
L-ALANINE (3,3,3-D3, 99%)(63546-27-0)		
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**

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

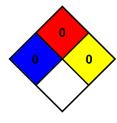
no hazard beyond that of ordinary combustible materials.

: 0 - Materials that will not burn under typical fire conditions, NFPA fire hazard including intrinsically noncombustible materials such as

concrete, stone, and sand.

: 0 - Material that in themselves are normally stable, even NFPA reactivity

under fire conditions.



# **Hazard Rating**

Health : 0 Minimal Hazard - No significant risk to health

: 0 Minimal Hazard Flammability : 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

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