

# L-ALANINE (18O2, 90%+)

## 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: 27/06/2011 Revision date: 10/01/2022 Supersedes: 15/11/2016 Version: 5.0

OLM-7460

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

1.1. Product identifier

Product form : Substance

 Substance name
 : L-ALANINE (18O2, 90%+)

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

CAS-No. : 73579-40-5
Product code : OLM-7460

Formula : CH3CH(NH2)C\*O\*OH

Synonyms : (S)-2-Aminopropionic acid / L-alpha-Aminopropionic 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

## 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

11/01/2022 EN (English) 1/6

# L-ALANINE (1802, 90%+) OLM-7460

## 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

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-ALANINE (18O2, 90%+)	(CAS-No.) 73579-40-5 (EC-No.) 200-273-8 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-ALANINE (18O2, 90%+)	(CAS-No.) 73579-40-5 (EC-No.) 200-273-8 (Unlabeled)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-ALANINE (18O2, 90%+) (Main constituent)	(CAS-No.) 73579-40-5	100	Not classified

Full text of H-statements: 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 off with soap and plenty of water. Get immediate medical advice/attention.

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 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 : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

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

Fire hazard : Combustible.

## 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".

## 6.2. Environmental precautions

Do not let product enter drains.

11/01/2022 EN (English) 2/6

# L-ALANINE (1802, 90%+) OLM-7460

## 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

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

For containment : Take up mechanically (sweeping, shovelling) 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 : Provide adequate ventilation to minimize dust and/or vapour 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, including any incompatibilities

Technical measures : Keep container tightly closed in a dry and well-ventilated place. 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

Density

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 insufficient ventilation, wear suitable respiratory equipment.

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 : 93.09 g/mol (Labeled)

Colour : White

Odour : No data available
Odour threshold : No data available

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

Relative evaporation rate (butylacetate=1) : No data available 314.6 °C (598.3 °F) Melting point Freezing point : No data available Boiling point : No data available : No data available Flash point Auto-ignition temperature No data available : No data available Decomposition temperature Flammability (solid, gas) : No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density : No data available

11/01/2022 EN (English) 3/6

: 1.432 g/cm3 at 22 °C (72 °F)

# L-ALANINE (18O2, 90%+) OLM-7460

## 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

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

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
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

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

Carbon oxides (CO, CO2). Nitrogen oxides.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

L-ALANINE (18O2, 90%+) (73579-40-5)	L-ALANINE (18O2, 90%+) (73579-40-5)			
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 sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
STOT-single exposure	: Not classified			
STOT-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.			

## **SECTION 12: Ecological information**

1	2.1	- 1	ox	icit	tv	

Ecology - general	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse
		effects in the environment

L-ALANINE (18O2, 90%+) (73579-40-5)	
EC50 Daphnia 1	> 100 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)

11/01/2022 EN (English) 4/6

# L-ALANINE (1802, 90%+) OLM-7460

## 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

## 12.2. Persistence and degradability

L-ALANINE (18O2, 90%+) (73579-40-5)		
ThOD	1080 mg/g Remarks: (racemate)(Lit.)	
BOD (% of ThOD)	87 % ThOD Remarks: (racemate)(Lit.)	

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 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 / ADN

#### 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 Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

L-ALANINE (18O2, 90%+) (73579-40-5)		
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	

11/01/2022 EN (English) 5/6

#### L-ALANINE (18O2, 90%+) OLM-7460

# 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

## 15.2. International regulations

#### **CANADA**

No additional information available

#### 15.2.1. National regulations

## L-ALANINE (18O2, 90%+) (73579-40-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

## 15.3. US State regulations

L-ALANINE (18O2, 90%+)(73579-40-5)				
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

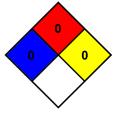
0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity

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

under fire conditions.



## **HMIS III Rating**

: 0 Minimal Hazard - No significant risk to health Health

Flammability : 0 Minimal Hazard : 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

11/01/2022 EN (English) 6/6