

# 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

Date of issue: 30/06/2011

Revision date: 30/11/2016

Supersedes: 30/06/2011

Version: 2.0

# CNLM-6014

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

1.1. Product identifier

Product form : Substance

Substance name : L-ALANINE-N-T-BOC (2-13C, 99%; 15N, 96-99%)

EC no : 239-847-8 (Unlabeled)
CAS No : 15761-38-3 (Unlabeled)

Product code : CNLM-6014

Formula : CH3CH(\*NH-t-BOC)\*COOH

Synonyms : Boc-L-alanine / N-(tert-Butoxycarbonyl)-L-alanine

#### 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

07/12/2016 EN (English) 1/6

## 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

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

#### 3.1. Substance

Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-ALANINE-N-T-BOC (2-13C, 99%; 15N, 96-99%) (Main constituent)	(CAS No) 15761-38-3 (Unlabeled) (EC no) 239-847-8 (Unlabeled) (EC index no)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-ALANINE-N-T-BOC (2-13C, 99%; 15N, 96-99%) (Main constituent)	(CAS No) 15761-38-3 (Unlabeled) (EC no) 239-847-8 (Unlabeled) (EC index no)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-ALANINE-N-T-BOC (2-13C, 99%; 15N, 96-99%) (Main constituent)	(CAS No) 15761-38-3 (Unlabeled)	100	Not classified

Full text of H-statements: 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 : 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 : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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/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 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 : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Avoid breathing dust.

#### 6.1.2. For emergency responders

No additional information available

# 6.2. Environmental precautions

Do not let product enter drains.

07/12/2016 EN (English) 2/6

# 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

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

For containment : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

# .4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. 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 any incompatibilities

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

Storage conditions : Store refrigerated (-5°C to 5°C) and dessicated. Protect from light.

# 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 : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

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.

Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

# 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.

Molecular mass : 191.2 g/mol (Labeled)

Colour : Beige.

Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 79 - 83 °C (174 - 181 °F)

Freezing point : No data available : No data available Boiling point Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available 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 : No data available Solubility

07/12/2016 EN (English) 3/6

## 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

Log Pow : 1.181

Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available Explosive properties Oxidising properties : No data available **Explosive limits** : No data available

#### Other information

No additional information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Not available.

#### 10.2. **Chemical stability**

Two years after receipt of order if stored as above. Re-QC after two years.

#### Possibility of hazardous reactions

No additional information available

#### Conditions to avoid

Not available.

#### 10.5. Incompatible materials

Strong oxidizing agent.

#### Hazardous decomposition products

Carbon oxides (CO, CO2). Nitrogen oxides.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified 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 : Not classified Specific target organ toxicity (single exposure)

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 been 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**

#### **Toxicity**

No additional information available

#### Persistence and degradability 12.2.

No additional information available

## Bioaccumulative potential

## L-ALANINE-N-T-BOC (2-13C, 99%; 15N, 96-99%) (15761-38-3 (Unlabeled))

1.181 Log Pow

#### **Mobility in soil** 12.4.

No additional information available

07/12/2016 EN (English) 4/6

## 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

#### 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.

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.

# **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-N-T-BOC (2-13C, 99%; 15N, 96-99%) (15761-38-3 (Unlabeled))				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.			

# 15.2. International regulations

#### **CANADA**

# L-ALANINE-N-T-BOC (2-13C, 99%; 15N, 96-99%) (15761-38-3 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

07/12/2016 EN (English) 5/6

# 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

# 15.3. US State regulations

L-ALANINE-N-T-BOC (2-13C, 99%; 15N, 96-99%)(15761-38-3 (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.

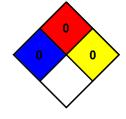
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

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**

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

07/12/2016 EN (English) 6/6