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MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY INFORMATION

L-GLUTAMINE-N-T-BOC (ALPHA-15N, 98%+) **Product Description**

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd ANDOVER, MA 01810 USA

E-mail cilsales@isotope.com Web Site www.isotope.com

Phone Numbers

Emergency Contact Chemtrec

Emergency Phone 1-800-424-9300 (24 hours)

Customer Service

Phone

1-800-322-1174 (8:30-5:30 EST)

Transportation 1-202-483-7616 (24 hours)

2 HAZARDS IDENTIFICATION

OSHA Hazards

No known OSHA hazards

HMIS Ratings

Physical 0 Flammability 0 Health 0

NFPA Codes

0 Fire Health 0 0 Reactivity

Potential Health Effects

Eyes Contact may cause eye irritation. Ingestion May be harmful if swallowed.

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation.



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COMPOSITION / INFORMATION ON INGREDIENTS 3

Composition / Information on Ingredients

H2NCO(CH2)2*CH(NH-t-BOC)*COOH Chemical Formula

Molecular Weight 248.25

CAS No. 13726-85-7 (unlabeled)

EC No. 237-296-8

FIRST AID MEASURES

First Aid Measures

Eyes Flush eyes with water as a precaution.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

Skin Wash with soap and plenty of water. Consult a physician.

Additional Information Move out of dangerous area. Consult a physician and show this safety data sheet.

5 FIRE FIGHTING MEASURE

Fire Fighting Measures

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

Fire Fighting

Equipment

Wear self contained breathing apparatus for fire fighting if necessary.

ACCIDENTAL RELEASE MEASURES 6

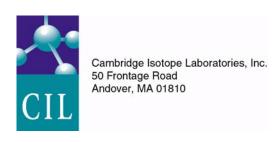
Accidental Release Measures

Personal Avoid dust formation.

Precautions

Do not empty into drains.

Environmental Precautions



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Methods and materials for containment and cleanup

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Precautions for Safe Handling

Handling Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

preventive fire protection.

Conditions for Safe Storage

Storage Store refrigerated (-5 C - 5 C) and dessicated. Protect from light.

EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protecton

Work Hygienic

Eyes - Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin Choose body protection according to the amount and concentration of the dangerous substance at

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

the work place.

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

Practices and at the end of workday.

PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Powder Form

Color White

рΗ No data available

113 - 116 °C (235 - 241 °F) Melting Point

Boiling Point No data available Page 3 of 6

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Flashpoint Lower Explosion No data available No data available

Limit

Upper Explosion

No data available

Limit

No data available Solubility in Water Auto Ignition No data available

Temperature

10 STABILITY AND REACTIVITY

Stability and Reactivity

Stable if stored under recommended conditions. **Chemical Stability**

11 **TOXICOLOGICAL INFORMATION**

Acute Toxicity

Serious No data available

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation

Inhalation No data available

Respiratory or Skin Sensitization

Not available

Germ Cell

Not available

Mutagenicity

IARC

No component of this product present at levels greater than or equal to 0.1% is identifiable as

probable, possible, or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identifiable as a

carcinogen or potential carcinogen by ACGIH.

NTP No component of this product present at levels greater than or equal to 0.1% is identifiable as a

known or anticipated carcinogen by NTP.

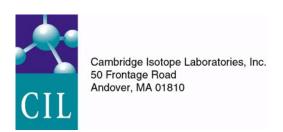
OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive

Not available

Toxicity



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Specific Target Organ Toxicity

Single Exposure No data available Repeated Exposure No data available

Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties have not been thoroughly investigated.

Other Information

General Comments Not available

ECOLOGICAL INFORMATION

Toxicity

Degradability Bioaccumulative Not available Potential Not available Mobility in Soil PBT and vPvB Not available Assessment

Other Adverse

Persistance and

Effects

Not available

Not available

13 **DISPOSAL CONSIDERATIONS**

Disposal Considerations

Product Disposal Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

Special Shipping

Not dangerous goods.

Notes

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REGULATORY INFORMATION 15

Regulatory Information

No known OSHA hazards

SARA

Sara 302 Component

Sara 313

No chemicals in this material are subject to the reporting requirements.

No chemicals in this material are subject to the reporting requirements.

Component

STATE REGULATIONS

Massachusetts

No

Right to Know

Pennsylvania Right

Yes

Yes

to Know

New Jersey Right

to Know

California Proposition 65 This product does not contain any chemicals known to State of California to cause cancer, birth

defects, or any other reproductive harm.

Canada

DSL Status Listed on the Canadian NDSL list.

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Manufacturer Disclaimer

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.

Approved On

06/21/11

Version Number