

L-TRYPTOPHAN (13C11, 99%; 15N2, 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 Revision date: 30/01/2019 Date of issue: 20/02/2013 Supersedes: 15/08/2018

CNLM-2475-H

Version: 3.2

SECTION 1: Identification of the s	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: L-TRYPTOPHAN (13C11, 99%; 15N2, 99%)
EC-No.	: 200-795-6 (Unlabeled)
CAS-No.	: 202406-50-6
Product code	: CNLM-2475-H
Formula	: (*C8H5*NH)*CH2*CH(*NH2)*COOH
Synonyms	: (S)-2-Amino-3-(3-indolyl)propionic acid. L-alpha-Amino-3-indolepropionic acid.
1.2. Relevant identified uses of the s	ubstance 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 safe	ety data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com 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	n
2.1. Classification of the substance of	or mixture
Classification according to Regulation (Ed Not classified	C) No. 1272/2008 [CLP]
Classification according to Directive 67/54 Not classified	48/EEC [DSD] or 1999/45/EC [DPD]
GHS-US classification Not classified	
Adverse physicochemical, human health a No additional information available	and environmental effects
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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ECTION 3: Composition/Information	on ingreatents		
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-TRYPTOPHAN (13C11, 99%; 15N2, 99%)	(CAS-No.) 202406-50-6 (EC-No.) 200-795-6 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-TRYPTOPHAN (13C11, 99%; 15N2, 99%)	(CAS-No.) 202406-50-6 (EC-No.) 200-795-6 (Unlabeled)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
L-TRYPTOPHAN (13C11, 99%; 15N2, 99%) (Main constituent)	(CAS-No.) 202406-50-6	100	Not classified

Full text of H-phrases: see section 16

Mixtures 3.2.

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Move out of dangerous area. Consult a physician and show this safety data sheet.
First-aid measures after inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
First-aid measures after skin contact	: Wash off with soap and plenty of water.
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.
4.2. Most important symptoms and effect	ts, 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	l 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 sul	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 meas	sures
	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid dust formation. Avoid breathing vapors, mist or gas.
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6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Do not let product enter drains.	
6.3. Methods and material for containme	ent and cleaning up
For containment	: Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	
No additional information available	
20/04/0040	
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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: 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.
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, inclu	ding 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/per	rsonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Personal protective equipment	: Safety glasses. Gloves. Respiratory protection of the dependent type. Protective clothing.
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
Respiratory protection	substance at the work place. When appropriate, use NIOSH/CEN approved respirator.
SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Solid
Appearance	: Powder
Molecular mass	: 217.13 g/mol (Labeled)
Color	: White to off-white
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
	: 280 - 285 °C (536 - 545 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available : No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
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Explosive properties Oxidizing properties

Explosion limits

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: No data available

: No data available : No data available

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9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity Not available. Image: Comparison of the second			
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			
Not available.			
10.5. Incompatible materials			
Strong oxidizing agents.			
10.6. Hazardous decomposition products			
Formed under fire conditions: Carbon oxides, nitro	gen oxides.		
SECTION 11: Toxicological informatio			
11.1. Information on toxicological effects Acute toxicity	Not classified		
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L-TRYPTOPHAN (13C11, 99%; 15N2, 99%) (20			
LD50 oral rat	> 16000 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Ptosis. Behavioral:Coma. Nutritional and Gross Metabolic:Changes in:Body temperature decrease.		
Skin corrosion/irritation	Not classified		
Serious eye damage/irritation	Not classified		
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	Blood disorders. The Food and Drug Administration and the Center for Disease Control have established a link between I-tryptophan and a sometimes fatal blood disorder called eosinophilia-myalgia syndrome which is marked by severe muscle and joint pain, swelling of the arms and legs, skin rash, and sometimes fever. It is characterized by severe eosinophilia, a blood disorder in which the white blood cells increase to an abnormally high level. L-Tryptophan occurs naturally in many foods and investigation has not established whether it or an impurity introduced during manufacture or distribution is the cause. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		
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			
12.1. Toxicity			

No additional information available

12.2.	Persistence and degradability		
No additi	onal information available		
12.3.	Bioaccumulative potential		
No additi	onal information available		
12.4.	Mobility in soil		
No additi	onal information available		
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12.5. Results of PBT and vPvB assessme	nt	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal consideration	IS	
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 treatment methods	: Offer surplus and non-recyclable solutions to a licensed disposal company.	
Product/Packaging disposal recommendations	: Dispose of as unused product.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / AI	DN	
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-TRYPTOPHAN (13C11, 99%; 15N2, 99%) (202406-50-6)		

L-TRYPTOPHAN (13C11, 99%; 15N2, 99%) (202406-50-6)		
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-TRYPTOPHAN (13C11, 99%; 15N2, 99%) (202406-50-6)	
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

No additional information available

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15.3. US State regulations		
L-TRYPTOPHAN (13C11, 99%; 15N2, 99%)(202406-50-6)		
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.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

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