



SAFETY DATA SHEET

L-THREONINE

PRODUCT# L-THREON-5007

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: L-Threonine
Synonyms: 2-Amino-3-hydroxybutanoic acid; Threonine; (S)-Threonine
Distributor: Bella Corp Trading Pty Ltd
Address: 6/34 Dominions Road, Ashmore QLD 4214, Australia
Telephone: 07 5597 4169
Email: bellacorp@bellacorp.com.au

SECTION II – COM POSITION, INFORMATION ON INGREDIENTS

<u>CAS#</u>	<u>Chemical Name</u>	<u>Percent</u>	<u>EINECS/ELINCS</u>
72-19-5	L-Threonine	ca. 100	200-774-1

SECTION III – HAZARDS IDENTIFICATION

Appearance: Colorless to white crystalline powder.
Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated. This is expected to be a low hazard for usual industrial handling.

Target Organs: No data found.

Potential Health Effects:

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.
Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.
Chronic: No information found.

SECTION IV – FIRST AID PROCEDURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupful of milk or water.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.



SAFETY DATA SHEET

Notes to Physician: Treat symptomatically and supportively.

SECTION V – FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Auto-Ignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Explosion Limits, Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

SECTION VI – ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

SECTION VII – HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA – Final PELs</u>
L-Threonine	None listed	None listed	None listed

OSHA Vacated PELs: L-Threonine: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.



Bella Corp
Trading Pty Ltd

Distributed by Bella Corp Trading Pty Ltd ABN: 32169140443
6/34 Dominions Rd, Ashmore, QLD, 4214, T: 07 55974 169 F: 07 55974 264
Email: bellacorp@bellacorp.com.au
www.bellacorp.com.au

SAFETY DATA SHEET

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Crystalline powder
Appearance:	Colorless to white
Odor:	None reported
pH:	Not available
Vapor Pressure:	Negligible
Vapor Density:	Not available
Evaporation Rate:	Negligible
Viscosity:	Not available
Boiling Point:	Not available
Freezing/Melting Point:	270°C
Decomposition Temperature:	Not available
Solubility:	Soluble
Specific Gravity/Density:	Not available
Molecular Formula:	C ₄ H ₉ NO ₃
Molecular Weight:	119.0679

SECTION X – STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	High temperatures, incompatible materials, dust generation.
Incompatibilities with Other Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization:	Will not occur.

SECTION XI – TOXICOLOGICAL INFORMATION

RTECS#:	
CAS# 72-19-5:	XO8590000
LD50/LC50:	Not available
Carcinogenicity:	
CAS# 72-19-5:	Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology:	No information found.
Teratogenicity:	No information found.
Reproductive Effects:	No information found.
Mutagenicity:	No information found.
Neurotoxicity:	No information found.
Other Studies:	

SECTION XII – ECOLOGICAL INFORMATION

No information available.



Bella Corp
Trading Pty Ltd

Distributed by Bella Corp Trading Pty Ltd ABN: 32169140443
6/34 Dominions Rd, Ashmore, QLD, 4214, T: 07 55974 169 F: 07 55974 264
Email: bellacorp@bellacorp.com.au
www.bellacorp.com.au

SAFETY DATA SHEET

SECTION XIII – DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION XIV – TRANSPORT INFORMATION

The product is not dangerous cargo according to the updated IMDG CODE 34-08 Edition. It conforms to the IMO IMDG CODE conditions limited by ocean delivery.

	<u>US DOT</u>	<u>Canada TDG</u>
Shipping Name:	Not regulated as a hazardous material	No information available
Hazard Class:		
UN Number:		
Packing Group:		

SECTION XV – REGULATORY INFORMATION

US FEDERAL:

TSCA:

Health and Safety Reporting List:

Chemical Test Rules:

Section 12b:

TSCA Significant New Use Rule:

CERCLA Hazardous Substances and Corresponding RQs:

SARA Section 302 Extremely Hazardous Substances:

Section 313:

Clean Air Act:

This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

CAS# 72-19-5 is listed on the TSCA inventory.

None of the chemicals are on the Health & Safety Reporting List.

None of the chemicals in this product are under a Chemical Test Rule.

None of the chemicals are listed under TSCA Section 12b.

None of the chemicals in this material have a SNUR under TSCA.

None of the chemicals in this material have an RQ.

None of the chemicals in this product have a TPQ.

No chemicals are reportable under Section 313.



Bella Corp
Trading Pty Ltd

Distributed by Bella Corp Trading Pty Ltd ABN: 32169140443
6/34 Dominions Rd, Ashmore, QLD, 4214, T: 07 55974 169 F: 07 55974 264
Email: bellacorp@bellacorp.com.au
www.bellacorp.com.au

SAFETY DATA SHEET

STATE:

CAS# 72-19-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65:

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations:

European Labeling in Accordance with EC Directives:

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection):

CAS# 72-19-5: 0

Canada – DSL/NDSL:

CAS# 72-19-5 is listed on Canada's DLS List.

Canada – WHMIS:

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List:

SECTION XVI – ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. User should make their own investigations to determine the suitability of the information for their particular purposes.

Revision No.: MSDSLTHREO.5007.1

Revision Date: 1/10/2019