

RAWPHARMA BIZ PRIVATE LIMITED

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SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

1. Identification		
Product Name	L-Threonine	
Cat No. :	BP394-100; BP394-100LC	
Synonyms	L-2-Amino-3-hydroxybutyric acid; Thr	
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.	
Details of the supplier of the safety data sheet		

<u>Company</u> Rawpharma Biz Private Limited 1101, City Center – 2, Science City Road, Sola, Ahmedabad, Gujarat - 380060

Emergency Telephone Number	: +91-79460 48549
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2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients			
Component	CAS No	Weight %	
		·	

L-Threonine		72-19-5	100	
4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.			
Inhalation	Remove from exposure, lie down. Remove to fresh air. Get medical attention.			
Ingestion	Clean mouth with water. Get medical attention.			
Most important symptoms and effects	No information av	ailable.		
Notes to Physician	Treat symptomatically			
5. Fire-fighting measures				
Suitable Extinguishing Media	Water spray. Carl	bon dioxide (CO 2). Dry chemica	al. Chemical foam.	
Unsuitable Extinguishing Media	No information av	ailable		
Flash Point Method -	No information available No information available			

Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 1	Flammability 1	Instability 0	Physical hazards N/A	
	6. Accidental rel	ease measures		
Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment as required. See Section 12 for additional Ecological Information.				
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.				
7. Handling and storage				
Handling	Avoid contact with skin and seek immediate medical as	5	o not ingest. If swallowed then	

Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	None under normal use conditions.		
Personal Protective Equipment			
Eye/face Protection	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 EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	No protective equipment is needed under normal use conditions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	5.0-6.5
Melting Point/Range	255 °C / 491 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C4 H9 N O3
Molecular Weight	119.12

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization

n No information available.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information	-	No acute toxicity ir	nformation is availa	ble for this product	I		
Component		LD50 Oral	LD50 Oral LD50 Dermal		L C 50	Inhalation	
L-Threonin		Not listed		Not listed		mg/L (Rat)4h	
Toxicologically Syn Products Delayed and immec	•	No information ava		d long-term expo	sure_		
rritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient a	s a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
L-Threonine	72-19-5	Not listed	Not listed	Not listed	Not listed	Not listed	
Nutagenic Effects		No information ava	ailable				
Reproductive Effect	ts	No information ava	ailable.				
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated ex		None known None known					
Aspiration hazard		No information ava	ailable				
Symptoms / effects,both acute and delayed		and No information ava	No information available				
Endocrine Disruptor Information		No information ava	No information available				
Other Adverse Effe	Adverse Effects The toxicological properties have not been fully investigated.						
		12. Ecol	ogical infor	mation			
Ecotoxicity Do not empty into dra	ains						

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT TDG IATA	Not regulated	
TDG	Not regulated	
ΙΑΤΑ	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
L-Threonine	72-19-5	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
L-Threonine	72-19-5	Х	-	200-774-1	Х	Х	Х	Х	Х	KE-01392

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
L-Threonine	72-19-5	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Notification	Requirements		
L-Threonine	72-19-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Regulatory Affairs	
	Rawpharma Biz Private Limited	
	www.rawpharmabiz.com	
Revision Date	24-Dec-2021	
Print Date	24-Dec-2021	
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS