



Safety Data Sheet

L-Threonine Feed Grade 98.5% Granular

SAM Nutrition
7760 France Ave S, Ste. 1330
Bloomington, MN 55435-5850
United States of America
Office: +1 (952) 974-9174 | fax: +1 (952) 974-8183
info@samhprp.com | www.samnutrition.com
Revised: 11/22/2021
SDS Expiry Date: 11/21/2024

1) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Chemical name	L-Threonine	EC#	200-774-1
CAS #	72-19-5	RTECS#	XO8590000

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product uses Feed additives, animal use only.

1.3. Supplier Information of the Safety Data Sheet

Company	SAM Nutrition	Telephone #	+1 (952) 974-9174
	7760 France Avenue S,	Fax #	+1 (952) 974-8183
	Suite 1330 Bloomington, MN		
	55435 United States of America	Email	info@samhprp.com

1.4. Emergency Contact Information

Emergency # +1 (952) 974-9174

2) HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Not a hazardous substance or mixture.

2.2. GHS Label Elements

Not classified by GHS.

2.3. Unclassified Hazards/Hazards Not Otherwise Classified

None.

3) COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Molecular formula	C ₄ H ₉ NO ₃	Molecular weight	119.12 g/mol
CAS Registry #	72-19-5	GHS-US Classification	N/A
Concentration	98.5% min	Synonyms	Threonin / Threonine / (S)-Threonine (2S,3R)-2-Amino-3 hydroxybutyric acid

3.2. Mixtures

None Not a mixture. Mono-constituent.

4) FIRST-AID MEASURES

4.1. Description of First-Aid Measures

If inhaled	Remove from exposure to fresh air immediately.
In case of skin contact	Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
In case of eye contact	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
If swallowed	Get medical aid. Wash out mouth with water.

4.2. Important Systems and Effects, Both Acute and Delayed

Refer to Section 2.2 for Precautionary Statements if any are applicable.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

No data available.

5) FIREFIGHTING MEASURES

5.1. Extinguishing Media

Use water spray, dry chemical, carbon dioxide, or chemical foam.

5.2. Special Hazards Arising from the Substance or Mixture

Carbon oxides, nitrogen oxides (NO_x).

5.3. Advice for Firefighters

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

5.4. Further information

None.

6) ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. Use proper personal protective equipment as indicated in Section 8.

6.2. Environmental Precautions

Do not let product enter drains.

6.3. Methods and Material for Containment and Cleaning Up

Vacuum or sweep up material and place into a suitable disposal container.

6.4. Reference to Other Sections

See Section 8: Exposure Controls/ Personal Protection and Section 13: Disposal Considerations.

7) HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Use with adequate exhaust ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

7.2. Conditions for Safe Storage

Store in a cool, dry place. Store in a tightly closed container.

7.3. Specific End Use(s)

No additional recommendations.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Chemical does not contain any substances with occupational exposure limits.

8.2. Exposure Controls

Appropriate 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.

Environmental exposure controls

Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

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.

Hand Protection

Wear appropriate protective gloves to prevent skin exposure.

Skin and Body Protection

Wear a chemical apron.

Respiratory

A NIOSH/MSHA approved air purifying dust or mist respirator or European

Protection

Standard EN 149. 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 a respirator's use.

Personal protective equipment symbol(s)

9) PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on Basic Physical and Chemical Properties**

Physical state	Solid / crystal granule
Appearance	White granules
Color	White
Odor	Practically odorless
Odor threshold	No data available
pH	5.72 (100g/l H ₂ O 20°C)
Melting point	263~264°C (505.4~507.2°F)
Flash point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Vapor Density	No data available
Specific gravity / density	No data available
Solubility	Soluble in water – 649.5 g/L at 20 °C
Log Pow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	>240°C (> 464°F)
Viscosity	No data available

9.2. Other Information

No data available.

10) STABILITY AND REACTIVITY

10.1. Chemical Stability

Stable under normal temperatures and pressures.

10.2. Conditions to Avoid

No data available.

10.3. Incompatible Materials

Strong oxidizing agents.

10.4. Hazardous Decomposition Products

Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

10.5. Hazardous Polymerization

Will not occur.

11) TOXICOLOGICAL INFORMATION

11.1. Acute Toxicity

Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

11.2. Skin Corrosion/Irritation

No data available.

11.3. Serious Eye Damage/Irritation

No data available.

11.4. Respiratory or Skin Sensitization

No data available.

11.5. Germ Cell Mutagenicity

No data available.

11.6. Carcinogenicity

CAS# 72-19-5: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

11.7. Reproductive Toxicity/Teratogenicity

No data available.

11.8. Single Target Organ Toxicity – Single Exposure

No data available.

11.9. Single Target Organ Toxicity – Repeated Exposure

No data available.

11.10. Aspiration Hazard

No data available.

11.11. Additional Information

RTECS#: X08590000

To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation; all known information is contained in this SDS.

12)ECOLOGICAL INFORMATION

12.1. Ecotoxicity

No data available. Product is a form of the natural amino acid and can therefore be degraded microbiologically.

12.2. Persistence and Degradability

No data available.

12.3. Bio-accumulative Potential

No data available.

12.4. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.5. Other Adverse Effects

No data available.

13)DISPOSAL CONSIDERATIONS

13.1. Waste Disposal

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US 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.

14)TRANSPORT INFORMATION

14.1. Department of Transportation

Not regulated by D.O.T.

14.2. International Transportation

No information available.

15) REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture

United States

SARA 313:

No chemicals are reportable under Section 313.

SARA 311/312 Hazard Categories:

No SARA Hazards

Section 302 (TPQ):

None of the chemicals in this product have a TPQ.

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

US State Right-to-Know Regulations:

L-Threonine; CAS-No. 72-19-5.

16) OTHER INFORMATION

16.1. Hazardous Materials Information System (USA)

Hazardous Material Information System (HMIS):	Health	1
	Flammability	1
	Physical Hazard	0

16.2. National Fire Protection Association Rating (USA)



16.3. Further Information

The information conveyed in this Safety Data Sheet is only a representation of what SAM HPRP Chemicals, Inc. and doing business as SAM Nutrition has found to be accurate based on the current information that is available, in regards to this compound. SAM Nutrition. makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will SAM Nutrition assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if SAM Nutrition. has been advised of the possibility of such damages.
