

Material Safety Data Sheet L-Threonine

Section 1 - Product Identification

Synonyms : **L-Threonine**
Chemical Formula : C₄H₉NO₃
Company Identification : Tradeasia International Pte. Limited
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Recommended use of the chemical and restrictions on use:

White pigments for application in coating materials, printing inks, man-made fibers, plastics, paper, glass, viereous enamels, ceramic products

Section 2 –Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

Section 3 – Composition/Information on Ingredients

Chemical Name	EC/CAS No	Purity, %
L-Threonine	72-19-5	>98%

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

Section 4 – Fire and Explosion Data

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

Section 5 – Fire Fighting 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 substance or mixture

Carbon oxides, nitrogen oxides (NO_x)

Carbon oxides, nitrogen oxides (NO_x)

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

For disposal see section 13.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 – Exposure Controls/Personal Protection

8.1. Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

8.2. Personal Protection: Respiratory : Government approved respirator.

Hand: Chemical resistant gloves.

Eye: Safety glasses.

8.3. Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Dust respirator. Gloves.

Exposure Limits: Not available.exposure Do not let product enter drains.

Section 9 – Physical and Chemical Properties

Physical State and Appearance: Solid

Odor: Not available.

Taste: Not available.

Molecular Weight: 119.12 g/mole

Color: Not available.

pH(1% soln/water): 5.0 - 6.0

Boiling Point: Not available.

Melting Point: 256 °C

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapour Pressure: Not available.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

Section 10 – Stability and Reactivity

Stability: Stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Strong oxidizing agents.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11 – Toxicological Information

Routes of Entry: Skin Contact . Eye Contact. Inhalation. Ingestion

Toxicity to Animals:

LD50

(Intraperitoneal, Rat): 3098 mg/kg

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12 – Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Product of Biodegradation: Not available.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13 – Disposal Considerations

Waste disposal

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 – Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not available.

Section 15 – Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: L-Threonine

Other Regulations: Not available.

Other Classifications:

WHMIS(Canada): Not available.

DSCL(EEC): Not available.

HMIS(U.S.A):

Health Hazard: 0

Fire Hazard: 0

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A):

Health: 0

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Safety goggles.

Section 16 : 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, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.