



Section 1. Product and Company Identification

Product Name L-Theanine
CAS Number 3081-61-6

Parchem - fine & specialty chemicals

415 Huguenot Street

New Rochelle, NY 10801

(914) 654-6800 (914) 654-6899

parchem.com info@parchem.com

EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Not regulated under the OSHA Hazard Communication Standard, 29 CFR 1910.1200

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements

None

Section 3. Composition / Information on Ingredients

Common Name L-Theanine
Synonym(s) 5-N-Ethyl-L-glutamine
CAS Number 3081-61-6

COMPONENT	CAS NUMBER	CONCENTRATION
L-Theanine	3081-61-6	98.0 - 102.0% wt.

Section 4. First Aid Measures

Skin Contact: In case of contact with skin, wash off immediately with plenty of water.

Eyes Contact: In case of contact with eyes, rinse thoroughly with plenty of lukewarm and seek medical advice.

Section 5. Firefighting Measures

Suitable Extinguishing Media: Water spray jet

Special Hazards from the Substance itself, its Combustion Products or from its

Vapors: Carbon dioxide (CO₂)

Special Protective Equipment for Firefighting: In case of fire, wear respiratory protection.

Section 6. Accidental Release Measures

Methods for Cleaning up/Taking up: Pick up mechanically

Section 7. Handling and Storage

Handling

Advice on Protection against Fire and Explosion: Keep away from sources of ignition

Storage: Well-closed containers in a cool and dry place at less than 21°C. Use good industrial hygiene practices.

Section 8. Exposure Controls / Personal Protection

Personal Protective Equipment: General protective measures

Section 9. Physical and Chemical Properties

Appearance

Form: Powder

Color: White crystalline

Odor: Odorless

Changes in Physical State

Melting Point (Decomposition): 210.0 - 215.0°C

Flash Point: Not applicable

Ignition Temperature: Not applicable

Self-ignition Temperature: Not applicable

Solubility in Water (20°C): approx. 282g/L

Specific Rotation ($[\alpha]_D^{20}$): +6.5° to +8.5°

Section 10. Stability and Reactivity

Stable for long time at ambient room temperature.

Thermal Decomposition: From 100°C

Hazardous Decomposition Products: Carbon dioxide (CO₂)

Section 11. Toxicological Information

Acute Oral Toxicity (LD₅₀) - Rat: > 21.5 g/kg

Irritant Effect on Skin - Rabbit: Non-irritant

Irritant Effect on Eyes - Rabbit eye: Non-irritant

Chronic

Carcinogenicity: Chronic administration to animals showed no carcinogenic effects.

Reproductive: Administration to animals did not result in adverse effects on reproduction.

Others: No significant toxic effects have been demonstrated in various chronic and sub-chronic tests.

Mutagenicity: Not considered mutagenic.

Target organs: None known.

Section 12. Ecological Information

Biodegradability (OECD 302B): To 8% (25d)

Ecotoxic Effect

Fish Toxicity (LC50) - Zebra Fish: > 1000 mg/l (48h)

Fish Toxicity (LC50) - Golden Orfe: > 1000 mg/l (48h)

Fish Toxicity (LC50) - Zebra Fish: > 1000 mg/l (96h)

Fish Toxicity (LC50) - Golden Orfe: > 1000 mg/l (96h)

Daphnia Toxicity (EC0): > 1000 mg/l

Bacteria Toxicity (EC0) - Fermentation Tube Test: > 1000 mg/l (24h)

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Not a regulated substance for land, air, or marine transport.

Section 15. Regulatory Information

Labeling in accordance with GHS/EC

Hazard warning labeling not compulsory

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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