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<b>I. Product:</b>	<b>L-Tryptophan</b>
<b>Description:</b>	<b>White to slightly yellowish white crystals or crystalline powder</b>

<b>Distributor:</b>	<b>Emergency Contact Information:</b>
Hard Eight Nutrition, LLC Dba BulkSupplements.com 7511 Eastgate Road Henderson, NV 89011 United States	Hard Eight Nutrition, LLC Dba BulkSupplements.com Tel.: 1-702-293-0222 Fax: 1-702-293-3101 Email: CS@BulkSupplements.com

<b>II. Composition/Information on Ingredient</b>	<b>III. Hazards Identification</b>
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Synonym: Tryptophan, L-alpha-aminoindole-3-propionic acid; (-) - Tryptophan; (S)-alpha-Amino-1H-indole-3-propanic acid; (S)-alpha-Aminoindole-3-propionic acid; (S) Tryptophan; 1-beta-3-Indolylalanine; 1H-Indole-3-alanine, (S)-; 1H-Indole-3-propanoic acid, alpha-amino-, (S)-; 2-Amino-3-Indolylpropanoic acid; 3-Indol-3-ylalanine; Alanine, 3-indol-3-yl; L-Tryptophane; L-alpha-Amino-3-indolepropionic Acid; Indole-3-alanine; Propionic acid, 2-amino-3-indol-3-yl; Tryptophane; L-Tryptofan



**CAS #:**  
73-22-3

**Chemical Formula:**  
C<sup>11</sup>H<sup>12</sup>N<sup>2</sup>O<sup>2</sup>

**Potential Acute Health Effects:**  
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

**CARCINOGENIC EFFECTS:** Not available

**MUTAGENIC EFFECTS:** Mutagenic for bacteria and/or yeast

**Teratogenic Effects:** Not available.

**Developmental Toxicity:** Not available  
Repeated or prolonged exposure is not known to aggravate medical condition.

<b>IV. First Aid</b>	<b>V. Fire Fighting Measures</b>
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**EYE CONTACT:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**SKIN CONTACT:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious inhalation: Not available.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms appear.

**Serious ingestion:** Not available.

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon dioxides (CO, CO2), nitrogen oxides (NO, NO2...)

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat. Non-flammable in presence of oxidizing materials.

**Fire-Fighting Media and Instructions:**

**SMALL FIRE:** Use DRY chemical powder.

**LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** As with most organic solids, fire is possible at elevated temperatures.

**Special Remarks on Explosion Hazards:**

Fine dust dispersed in air in sufficient concentrations and in the presences of an ignition source is a potential dust explosion hazard.

<b>VI. Accidental Release Measures</b>	<b>VII. Handling and Storage</b>
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**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water n the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

**Precautions:**

Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

**Storage**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Keep container tightly closed. Keep container in cool, well-ventilated area.

VIII. Exposure Controls / Personal Protection	VIII. Physical and Chemical Properties
<p><b>Engineering Controls:</b> Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.</p> <p><b>Personal Protection:</b> Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.</p> <p><b>Personal Protection in Case of a Large Spill:</b> Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.</p> <p><b>Exposure Limits: Not available.</b> A50:C85A50:C88B67A50:A69A50:C90B67A50:A69A50:C91A50:C90A50:C89A50:C88A50:C87A50:A66</p>	<p><b>Physical state and appearance: Solid. (Crystalline solid)</b></p> <p><b>Odor:</b> Odorless.</p> <p><b>Taste:</b> Bitter (Slight)</p> <p><b>Molecular Weight:</b> 204.22 g/mole</p> <p><b>Color:</b> White. White to yellowish.</p> <p><b>pH (1% soIN/water):</b> 5.5 - 7.0</p> <p><b>Boiling Point: Not available.</b></p> <p><b>Melting Point:</b> 282 deg C</p> <p><b>Decomposition temperature:</b> 289 C (552.2 F)</p> <p><b>Critical Temperature:</b> Not available.</p> <p><b>Specific Gravity: Not available.</b></p> <p><b>Vapor pressure:</b> Not applicable.</p> <p><b>Vapor Density:</b> Not available.</p> <p><b>Volatility:</b> Not available.</p> <p><b>Odor Threshold:</b> Not available.</p> <p><b>Water/Oil Dist. Coeff.:</b> Not available.</p> <p><b>Ionicity (in Water):</b> Not available.</p> <p><b>Dispersion Properties:</b> See solubility in water. Soluble in hot water. Partially soluble in cold water. Insoluble in diethyl ether. Slightly soluble in acetic acid. Solubility in water: 0.23 g/l @ 0 deg. C; 11.4 g/l @ 25 deg C; 17.1 g/l @ 50 deg. C; 27.95 g/l @ 75 deg. C; 49.9 g/l @ 100 deg. C</p> <p>Insoluble in chloroform. Soluble in hot alcohol and solutions of dilute acids, and alkali hydroxides.</p>
X. Stability and Reactivity	XI. Toxicological Information
<p><b>Stability:</b> The product is stable.</p> <p><b>Instability Temperature:</b> Not available.</p> <p><b>Conditions of Instability:</b> Excess heat, incompatible materials</p> <p><b>Incompatibility with various substances:</b> Reactive with oxidizing agents, acids.</p> <p><b>Corrosivity:</b> Non-corrosive in presence of glass.</p> <p><b>Special Remarks on Reactivity:</b> Protect from light.</p> <p><b>Special Remarks on Corrosivity:</b> Not available.</p> <p><b>Polymerization:</b> Will not occur.</p>	<p><b>Routes of Entry:</b> Inhalation. Ingestion.</p> <p><b>Toxicity to Animals:</b> Acute oral toxicity (LD50): &gt;1600 mg/kg [Rat]</p> <p><b>Chronic Effects to Humans:</b> MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.</p> <p><b>Other Toxic Effects on Humans:</b> Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.</p> <p><b>Special Remarks on Toxicity to Animals:</b> Not available.</p> <p><b>Special Remarks on Chronic Effects on Humans:</b></p> <p><b>Skin:</b> May cause skin irritation.</p> <p><b>Eyes:</b> May cause eye irritation.</p> <p><b>Inhalation:</b> May cause respiratory tract irritation.</p> <p><b>Ingestion:</b> Causes severe nausea. May affect behavior/central nervous system (drowsiness, headache, excitement, somnolence, insomnia, muscle weakness, antianxiety), respiration (acute pulmonary edema), skin (dermatitis). May affect blood and cause L-Tryptophan induced sophilia myalgia syndrome. This illness is characterized by musculoskeletal symptoms including myalgias, athralgias, and parasthesia. The physical findings consist of muscle tenderness, neuropathies, rash, peripheral and periorbital edema, eosinophilia</p> <p><b>Chronic Potential Health Effects:</b></p> <p><b>Ingestion:</b> Prolonged or repeated ingestion may affect the liver, metabolism (weight loss), blood (changes in red blood cell count, eosinophilia), and respiration (dyspnea, chronic pulmonary edema), urinary system.</p>
XII. Ecological Information	XIII. Disposal Consideration
<p><b>Ecotoxicity:</b> Not available.</p> <p><b>BOD5 and COD:</b> Not available.</p> <p><b>Products of Biodegradation:</b> Possibly hazardous short term degradation products are not likely. However long term degradation products may arise.</p> <p><b>Toxicity of the Products of Biodegradation:</b> The product itself and its products of degradation are not toxic.</p> <p><b>Special Remarks on the Products of Biodegradation:</b> Not available.</p>	<p><b>Waste Management Information:</b> Waste must be disposed of in accordance with federal, state, and local environmental control regulations.</p>

#### XIV. Other Regulatory Information

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

**Other Regulations: EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances

**Other Classifications**

**WHMIS (Canada):** Not controlled under WHMIS (Canada)

**DSCL (EEC):** This product is not classified according to the EU regulations.

**S24/25:** Avoid contact with skin and eyes.

**HMIS (USA):**

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

**Personal Protection: E**

**National Fire Protection Association (USA):**

Health: 1

Flammability: 1

Reactivity: 0

**Specific Hazard: Protective Equipment:**

Gloves and lab coat

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Safety glasses.

#### XV. Other 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. In no event shall Hard Eight Nutrition LLC DBA BulkSupplements.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Hard Eight Nutrition LLC DBA BulkSupplements.com has been advised of the possibility of such damages.*