

Section 1: Identification

Common Name/Trade Name	TRYPTOPHAN (L) USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	L-Tryptophan, L(-)-Tryptophan; (S)-2-Amino-3-(1H-indol-3-yl)propanoic acid; L-alphs-Amino-3-indolepropionic acid; Indole-3-alanine.	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Not a hazardous substance or mixture.
Signal Word	None
Hazard Statement(s)	N/A
Pictogram(s)	N/A
Precautionary Statement(s)	N/A
Hazards Not Otherwise Classified	No data available
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients

Chemical Name	L-Tryptophan
Common Name	L-Tryptophan
CAS Number	73-22-3
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	No data available
If Inhaled	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention..
In Case of 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.
In Case of 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.
If Swallowed	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.
Most Important Symptoms and Effects	No data available

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Hazards Arising From the Substance/Mixture	Flammability of the Product: May be combustible at high temperature. Products of Combustion: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...). Slightly flammable to flammable in presence of heat. Non-flammable in presence of oxidizing materials. Explosion Hazards in Presence of Various Substances: Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks. 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.
Special PPE and/or Precautions for Firefighters	Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	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.
Methods and Materials Used for Containment	Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Large Spill: 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.
Cleanup Procedures	Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Large Spill: 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.

Section 7: Handling and Storage

Precautions for Safe Handling	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.
Conditions for Safe Storage	Store in a closed container, at 22C ~25C in a dry and cool place and relative humidity 55~65%.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No data available
Appropriate Engineering Controls	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.
PPE - Eye/Face Protection	Safety glasses
PPE - Skin Protection	Gloves. Full suit. Boots.
PPE - Body Protection	Lab coat and gloves.
PPE - Respiratory Protection	A self contained breathing apparatus should be used to avoid inhalation of the product. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Section 9: Physical and Chemical Properties

Appearance	Solid. Crystalline solid. White.
Upper/Lower Flammability or Explosive Limits	No data available
Odor	Odorless
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	(1% soln/water): 5.5-6.4
Relative Density	No data available
Melting Point/Freezing Point	Melting point: 282 deg. C. Decomposition temperature: 289C (552.2F)
Solubility	Soluble in hot water. Partially soluble in cold water. Insoluble in diethyl ether. Slightly soluble in acetic acid. Solubility in water. Insoluble in chloroform. Soluble in hot alcohol and solutions of dilute acids, and alkali hydroxides.
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Partition Coefficient	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	The product is stable.
Possibility of Hazardous Reactions	Polymerization: Will not occur.
Conditions to Avoid	Conditions of Instability: Excess heat, incompatible materials. Special Remarks on Reactivity: Protect from light
Incompatible Materials	Reactive with oxidizing agents, acids.
Hazardous Decomposition Products	Other decomposition products-No data available

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Acute oral toxicity (LD50): >16000 mg/kg [Rat].
Acute Toxicity - Inhalation	Slightly hazardous in case of inhalation. May cause respiratory tract irritation.
Acute Toxicity - Dermal	Slightly hazardous in case of skin contact (irritant)
Acute Toxicity - Eye	May cause eye irritation.
Skin Corrosion/Irritation	Slightly hazardous in case of skin contact (irritant). May cause skin irritation.
Serious Eye Damage/Irritation	No data available
Respiratory or Skin Sensitization	Slightly hazardous in case of skin contact (irritant)
Germ Cell Mutagenicity	MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May affect genetic material (mutagenic) on Humans.
Carcinogenicity IARC	No data available.
Carcinogenicity ACGIH	No data available.
Carcinogenicity NTP	No data available.
Carcinogenicity OSHA	No data available.
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	No data available
Persistence and Degradability	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Bio-accumulative Potential	The product itself and its products of degradation are not toxic.
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Waste must be disposed of in accordance with federal, state and local environmental control regulations..
Waste Treatment Methods Packaging	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: 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 (U.S.A.): Health Hazard: 1 Fire Hazard: 1 Reactivity: 0 Personal Protection: E National Fire Protection Association (U.S.A.): Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: E National Fire Protection Association (U.S.A.): Health: 1 Flammability: 1 Reactivity: 0 Specific hazard: Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: Other Information

Additional Information	N/A
Prepared By	Scarlotte Smith
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