

### Section 1: Identification

<b>Common Name/Trade Name</b>	L- ISOLEUCINE USP	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
<b>Product Synonym(s)</b>	(2S,3S)-2-Amino-3-methylpentanoic acid	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

### Section 2: Hazards Identification

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

### Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	(2S,3S)-2-Amino-3-methylpentanoic acid
<b>Common Name</b>	L-Isoleucine
<b>CAS Number</b>	73-32-5
<b>Impurities and/or Stabilizing Additives</b>	No data available

### Section 4: First Aid Measures

<b>General Advice</b>	No information available
<b>If Inhaled</b>	Immediately relocate to a fresh air environment. Rinse mouth with water. If not breathing, give artificial respiration. If breathing becomes difficult, give oxygen and seek medical attention.
<b>In Case of Skin Contact</b>	Wash with soap and copious amounts of water. If irritation persists, seek medical attention.
<b>In Case of Eye Contact</b>	Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. If contact lenses are being worn, remove lenses and continue rinsing. Seek medical attention.
<b>If Swallowed</b>	Rinse mouth with water and seek medical attention.
<b>Most Important Symptoms and Effects</b>	Most important symptoms and effects, both acute and delayed. Indication of any immediate medical attention and special treatment needed No information available

### Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Water spray, carbon dioxide, dry chemical powder/foam
<b>Special Hazards Arising From the Substance/Mixture</b>	Special hazards arising from the substance or mixture Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Upon combustion will result in carbon monoxide, carbon dioxide and nitrogen oxide being released.
<b>Special PPE and/or Precautions for Firefighters</b>	No information available

### Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Personal precautions, protective equipment and emergency procedures. Use personal protection, Make spills wet to prevent the generation of dust and then, sweep up into a closed container.
<b>Methods and Materials Used for Containment</b>	Do not discharge into sewer, river, underground water, etc.Methods and material for containment and cleaning up After recovering, wash away spilled area with plenty of water.
<b>Cleanup Procedures</b>	Do not discharge into sewer, river, underground water, etc.After recovering, wash away spilled area with plenty of water.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Follow good industrial practice in housekeeping and personal hygiene. Wear personal protective equipment as outlined in section 8.
<b>Conditions for Safe Storage</b>	Store in closed containers in a dry area. Avoid humidity, sunlight and high temperature.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	Contains no substances with occupational exposure limit values.
<b>Appropriate Engineering Controls</b>	No Data
<b>PPE - Eye/Face Protection</b>	Chemical safety goggles.
<b>PPE - Skin Protection</b>	Handle with rubber gloves.
<b>PPE - Body Protection</b>	Wear appropriate laboratory apparel, protect exposed skin.
<b>PPE - Respiratory Protection</b>	Dust mask or appropriate respirator. Utilize local exhaust ventilation.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	White crystals or crystalline powder
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	no available
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	5.5-6.5 (1.0g in 100ml of H <sub>2</sub> O)
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	Melting point/range: 284 °C - (decomposes)
<b>Solubility</b>	4.02 g/100g H <sub>2</sub> O (20°C)
<b>Initial Boiling Point and Boiling Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available
<b>Partition Coefficient</b>	No data available
<b>Auto-Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	The following applies in general to flammable organic substances and mixtures; in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
<b>Chemical Stability</b>	Stable under normal temperature and pressures
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	Humidity and high temperature. In presence of moisture, will oxidize and darken.
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Nitrogen oxides (combustion)

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50 > 16 g/kg rat
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	May cause eye irritation. No specific data available
<b>Skin Corrosion/Irritation</b>	May cause eye irritation. No specific data available
<b>Serious Eye Damage/Irritation</b>	No data available
<b>Respiratory or Skin Sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity IARC</b>	No data available
<b>Carcinogenicity ACGIH</b>	No data available
<b>Carcinogenicity NTP</b>	No data available
<b>Carcinogenicity OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity - Single Exposure</b>	No data available
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	No data available
<b>Aspiration Hazard</b>	No data available

## Section 12: Ecological Information

<b>Toxicity</b>	No data available
<b>Persistence and Degradability</b>	BOD= 1.053 g/g
<b>Bio-accumulative Potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other Adverse Effects</b>	No data available

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Dispose of the material as you would with a non-hazardous material in accordance with all applicable national, state and local regulations.
<b>Waste Treatment Methods Packaging</b>	No data available
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

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

## Section 15: Regulatory Information

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards: No SARA Hazards. Massachusetts Right To Know Components: No components are subject to the Massachusetts Right To Know Act. Pennsylvania Right To Know Components: L-Isoleucine CAS-No. 73-32-5. New Jersey Right To Know Components: L-Isoleucine CAS-No. 73-32-5. 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.

## Section 16: Other Information

<b>Additional Information</b>	
<b>Prepared By</b>	Lisa Russell
<b>Revision Date</b>	03/07/2019 16:47

**Disclaimer**

Letco Medical, LLC believes that the above information is 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. If the product is used as a component in another product, this information may not be applicable. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED ABOVE. Letco Medical shall not be held liable for any loss or damage resulting from handling, storage, use or from contact with the above product.