



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

LEUCINE USP (L)

30-5234

### Section 1: Identification

**Product Name** LEUCINE USP (L)  
**Commercial Name** LEUCINE (L)  
**Product Use** Various use (drugs, nutritional, industrial)  
**Restrictions On Use** N/A

**Product Code** 30-5234

**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

### Section 2: Hazard(s) Identification

**OSHA Haz Com:** N/A

**CFR 1910.1200**

**Signal Word** NON-HAZARDOUS

**Hazard Statement(s)** May cause eye and skin irritation.; It will increase the biological oxygen demand (BOD) of water.

**Pictogram(s) or Symbol(s)**

#### Precautionary Statement(s):

**Prevention** N/A  
**Response** N/A  
**Storage** N/A  
**Disposal** N/A

### Section 3: Composition/Information on Ingredients

**Substance/Mixture** L-Leucine  
**Components** L-Leucine  
**% By Weight** 98.5 - 101.0%  
**CAS#** 61-90-5  
**Molecular Weight** 131.17  
**Chemical Formula** C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>  
**Synonym(s)** (2S)-2-Amino-4-methylpentanoic acid

#### Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
(2S)-2-Amino-4-methylpentanoic acid	61-90-5	98.5 - 101.0%	N/A	N/A

**Section 4: First-Aid Measures**

<b>Inhalation</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>Skin Contact</b>	Wash with soap and copious amounts of water. If irritation persists, seek medical attention.
<b>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>Ingestion</b>	Rinse mouth with water and seek medical attention.
<b>Symptoms/Effects</b>	
<b>Acute</b>	N/A
<b>Delayed</b>	N/A
<b>Immediate Medical Attention</b>	No information available

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Water spray, carbon dioxide, dry chemical powder/foam

**Unsuitable Extinguishing Media**

N/A

**Products of Combustion**

N/A

**Firefighters Special Equipment and Precautions**

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.

**Section 6: Accidental Release Measures**

6.1 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. 6.2 Environmental precautions Do not discharge into sewer, river, underground water, etc. 6.3 Methods and material for containment and cleaning up After recovering, wash away spilled area with plenty of water.

**Section 7: Handling and Storage**

7.1. Precautions for safe handling Follow good industrial practice in housekeeping and personal hygiene. Wear personal protective equipment as outlined in section 8. 7.2. Conditions for safe storage, including any incompatibilities Store in closed containers in a dry area. Avoid humidity, sunlight and high temperature.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Contains no substance with occupational exposure limit value
<b>Engineering Controls</b>	N/A
<b>Personal Protection</b>	Respiratory protection: Dust mask or appropriate respirator. Utilize local exhaust ventilation. Protective gloves: Rubber Eye protection: Chemical safety goggles. Other protective equipment: Wear appropriate laboratory apparel, protect exposed skin. Occupational exposure limits: Not established

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	White crystals or crystalline powder		
<b>Odor</b>	N/A		
<b>Odor Threshold</b>	N/A		
<b>Melting Point</b>	293-295°C (decomposes)	<b>pH</b>	5.5-6.5 (1.0g in 100mL of H <sub>2</sub> O)
<b>Freezing Point</b>	N/A	<b>Vapor Pressure</b>	N/A
<b>Boiling Point/Range</b>	N/A	<b>Vapor Density</b>	N/A
<b>Decomposition temperature</b>	N/A	<b>Viscosity</b>	N/A
<b>Partition Coefficient: n-octanol/water</b>	N/A	<b>Evaporation Rate</b>	N/A
<b>Flash Point</b>	N/A	<b>Autoignition temperature</b>	N/A
<b>Flammability</b>	N/A	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	N/A
		<b>Upper</b>	N/A
<b>Solubility(ies)</b>	2.38 g/100g H <sub>2</sub> O (20°C)		
<b>Other</b>	N/A		

**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>Hazardous Polymerization</b>	Nitrogen oxides (combustion)
<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>RTECS</b>	N/A
<b>Acute Toxicity</b>	LD <sub>50</sub> > 16 g/kg rat
<b>Skin Corrosion/Irritation</b>	May cause skin irritation. No specific data available
<b>Serious Eye Damage/Irritation</b>	May cause eye irritation. No specific data available
<b>Respiratory or Skin Sensitization</b>	N/A
<b>Germ Cell Mutagenicity</b>	N/A
<b>Carcinogenicity</b>	N/A
<b>Reproductive Toxicity</b>	N/A
<b>Routes of Entry</b>	N/A

**Symptoms Related to Exposure**

N/A

**Potential Health Effects**

N/A

**Target Organ(s)** N/A**Section 12: Ecological Information****Ecotoxicity**

N/A

**Persistence and Degradability**

BOD= 0.849 g/g

**Bioaccumulative Potential**

BT and vPvB assessment not available as chemical safety assessment not required/not conducted.

**Mobility in Soil**

N/A

**Other Adverse Effects**

WGK class (Europe):1 (group classification according to VwVwS / 17 May 1999, Germany)

**Section 13: Disposal Considerations****Waste Disposal**

Dispose of the material as you would with a non-hazardous material in accordance with all applicable national, state and local regulations.

**Disposal of Container**

N/A

**Other Considerations**

N/A

**Section 14: Transport Information****DOT Classification**

Avoid humidity and high temperature. Prevent damage of the container. 14.1-14.6 Not classified as dangerous in meaning of transport regulations. 14.7 Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC code.

**Section 15: Regulatory Information****Regulations**

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture EU regulations: Major Accident Hazard: 96/82/EC Legislation: Directive 96/82/EC does not apply Regulation(EC) No.1005/2009 on substances that deplete the ozone layer: not regulated Regulation(EC) No.850/2004 of the European Parliament and of the Council of 29 April 2004 on Directive 79/117/EEC: not regulated Regulation (EC) No689/2008 concerning the export and import of dangerous chemicals.: not regulated Substance of very high concern(SVHC) This product does not contain substance of very high concern above the respective regulatory limit (> 0.1% (w/w) Regulation (EC) No.1907/2006(REACH), Article 57).

**Other**

For this product a chemical safety assessment was not carried out.

**Section 16: Other Information**

The information contained in this SDS is, to the best of our knowledge true and accurate. Any recommendations or suggestions made are without guarantee, since the conditions of use are beyond our control.