Safety Data Sheet

1. Identification

Product Name:	L-Leucine — Bulk Food Grade
Synonyms:	Leucine, (S)-2-amino-4-methylpentanoic acid
Recommended Use:	Food and supplement ingredient (amino acid).
Restrictions on Use:	None known for food use within regulatory limits.
Supplier:	LiquidShop (Liquid Solution), 613 Rte du Président-Kennedy, porte 6, Lévis, QC G6C 1J6, Canada
Contact:	info@liquidsolution.ca · liquidshop.ca
Emergency Telephone:	Centre antipoison du Québec: 1-800-463-5060 (24 h)

2. Hazard Identification

Classification:	Not classified as a hazardous product under WHMIS 2015 (HPR) or GHS.
Label Elements:	No pictogram, signal word or hazard statement required.
Other Hazards:	Dust may cause mild mechanical irritation to eyes and respiratory tract. Fine dust dispersed in air may form combustible dust concentrations.

3. Composition / Information on Ingredients

Substance:	L-Leucine
CAS No.:	61-90-5
EC No.:	200-522-0
Molecular Formula / Weight:	C6H13NO2 / 131.17 g/mol

4. First-Aid Measures

Inhalation:	Move to fresh air. Seek medical attention if symptoms persist.
Skin Contact:	Wash with soap and water.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Seek medical attention if irritation persists.
Ingestion:	Rinse mouth with water. Seek medical attention if large amounts are swallowed and symptoms occur.
Symptoms / Effects:	No significant acute effects expected. Dust may irritate eyes.

5. Fire-Fighting Measures

Extinguishing Media:	Water spray, foam, dry chemical or CO2.
Specific Hazards:	Not flammable. Fine dust may form combustible mixtures with air. Thermal decomposition may release oxides of carbon and nitrogen.
Protective Equipment:	Self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions:	Avoid dust formation and contact with eyes. Ensure adequate ventilation.
Environmental Precautions:	Avoid release of large quantities to drains and surface water.
Clean-up:	Sweep or vacuum up and place in a suitable closed container for disposal. Avoid generating dust.

7. Handling and Storage

Handling:	Handle in accordance with good manufacturing and hygiene practices. Avoid dust formation.
Storage:	Store in a cool, dry place in tightly closed containers, protected from moisture. Keep away from strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limits:	No occupational exposure limits established. Nuisance dust limits apply.
Engineering Controls:	General or local exhaust ventilation to control dust.
Eye Protection:	Safety glasses with side shields.
Skin Protection:	Food-grade gloves and clean work clothing.
Respiratory Protection:	Dust mask (N95) if dust is generated.

9. Physical and Chemical Properties

Appearance:	White crystalline powder
Odour:	Odourless or faint characteristic odour
Melting Point:	Decomposes on strong heating
Solubility:	Sparingly soluble in water
Flammability:	Not flammable

10. Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Excessive heat, moisture, dust generation.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition:	Oxides of carbon and nitrogen.

11. Toxicological Information

Acute Oral Toxicity:	Low acute toxicity.
Irritation:	Dust may cause mild, transient eye irritation.
Sensitization / CMR:	Not known to be a sensitizer. Not classified as carcinogenic, mutagenic or toxic to reproduction.
Food Safety:	L-Leucine is an amino acid naturally present in dietary proteins.

12. Ecological Information

Ecotoxicity:	Not expected to be harmful to aquatic organisms at normal use levels.
Persistence:	Readily biodegradable (amino acid).
Bioaccumulation:	Not expected to bioaccumulate.

13. Disposal Considerations

Disposal:	Dispose of in accordance with local, provincial and federal regulations. Empty packaging may be recycled.

14. Transport Information

TDG / DOT / IATA / IMDG:	Not regulated as dangerous goods.

15. Regulatory Information

Canada:	Not a hazardous product under WHMIS 2015. Use in foods and natural health products is subject to Health Canada regulations.

16. Other Information

Date of Issue:	2026-10-08
Revision:	00

The information in this Safety Data Sheet is believed to be accurate as of the date of issue. It is provided for safe handling, use and disposal and does not constitute a warranty or quality specification.