



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
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Safety Data Sheet (MSDS)

- L-Carnitine

According to: GB/T 16483, GB/T 17519; GHS (Rev.9)**Product Name:** L-Carnitine (Levocarnitine)**CAS Number:** 541-15-1**Product Number:** LCN-20260223**Brand:** SIGALD**Revision Date:** 23 February 2026**Supplier:** NEWAY SINOPHC TECH. LIMITED**Address:** RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.**Tel/Fax:** +86-021-50350029**Emergency Phone:** +86-021-50350029

SECTION 1: Identification

1.1 Product Identifiers

- Name: L-Carnitine
- Synonyms: Levocarnitine; (R)-3-Carboxy-2-hydroxy-N,N,N-trimethylpropan-1-aminium hydroxide inner salt
- CAS No.: 541-15-1
- EINECS No.: 208-768-0

1.4 Uses

- **Uses:** Nutritional supplement, pharmaceutical intermediate, food additive.
- **Restrictions:** None known for intended use.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Eye irritation (Category 2): H319 - Causes serious eye irritation.
- Skin irritation (Category 2): H315 - Causes skin irritation.

2.2 Label Elements

- **Pictograms:** (Exclamation Mark)
- **Signal Word:** WARNING
- **Hazard Statements:** H315, H319
- **Precautionary Statements:** P264, P280, P305+P351+P338, P332+P313

SECTION 3: Composition/Information on Ingredients

- **Substance:** Pure Chemical.
- **Content:** L-Carnitine (100%).
- **CAS No.:** 541-15-1.
- **Hazardous Components:** None.

SECTION 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If coughing persists, seek medical advice.
- **Skin Contact:** Wash with plenty of soap and water. If irritation occurs, get medical attention.
- **Eye Contact:** Rinse thoroughly with running water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Product is generally safe for ingestion at recommended levels. If large amounts are swallowed and discomfort occurs, consult a physician. Do not induce vomiting.

SECTION 5: Firefighting Measures

- **Suitable Media:** Water spray, dry chemical, CO₂, foam.
- **Hazards in Fire:** Decomposes at high temperatures to produce nitrogen oxides (NO_x) and ammonia fumes.
- **Precautions:** Wear self-contained breathing apparatus (SCBA) and full protective clothing. Cool containers with water spray.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear dust mask (P1) and safety glasses. Avoid dust formation.



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- **Environmental Precautions:** Prevent material from entering drains or waterways.
- **Clean-Up:** Sweep up and shovel into a sealed container for recovery or disposal. Wipe area with a damp cloth to prevent dust.

SECTION 7: Handling and Storage

- **Handling:** Avoid inhalation of dust and contact with eyes/skin. Wash hands after handling.
- **Storage:** Store in a cool, dry place in tightly closed containers. Protect from moisture (hygroscopic). Store away from strong oxidizers and acids.

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Local exhaust ventilation if dust is generated.
- **PPE:**
 - Eyes: Safety glasses or chemical goggles.
 - Skin: Nitrile gloves and lab coat.
 - Respiratory: Dust mask (P1/P2) for dusty operations.

SECTION 9: Physical and Chemical Properties

- **Appearance:** White crystalline powder.
- **Odor:** Odorless.
- **pH:** 5.5 - 9.5 (10% solution).
- **Melting Point:** 197 - 200°C (decomposes).
- **Solubility:** Freely soluble in water, soluble in ethanol.
- **Relative Density:** ~1.35 g/cm³.
- **Vapor Pressure:** < 0.01 hPa (20°C).
- **Hygroscopicity:** Hygroscopic.

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Hazardous Reactions:** Reacts with strong oxidizing agents.
- **Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) > 10,000 mg/kg (Very low toxicity).
- **Irritation:** Mild skin irritant; moderate eye irritant.
- **Sensitization:** Not a known sensitizer.
- **Carcinogenicity:** IARC: Not classified as a carcinogen.
- **Other:** Essential nutrient for humans; no chronic toxicity at normal doses.

SECTION 12: Ecological Information

- **Aquatic Toxicity:** Low toxicity to aquatic life.
- **Persistence:** Readily biodegradable.
- **Bioaccumulation:** Negligible bioaccumulation potential.
- **Environmental Impact:** May cause slight oxygen depletion in water if released in very large quantities.

SECTION 13: Disposal Considerations

- Dispose of in accordance with local regulations.
- Uncontaminated product may be recycled or used as animal feed additive.
- Contaminated waste should be incinerated in a licensed facility.

SECTION 14: Transport Information

- **UN Number:** N/A (Non-Hazardous).
- **Proper Shipping Name:** Not dangerous goods.
- **Class/Packing Group:** N/A.
- **Marine Pollutant:** No.
- **Notes:** Transport in closed, moisture-proof containers.



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SECTION 15: Regulatory Information

- **China:** Complies with GB 1886.219 (Food Safety Standard) and GB/T 23876.
- **EU:** REACH registered. Complies with (EC) 1333/2008.
- **USA:** TSCA listed. FDA GRAS (21 CFR § 184.1279). Meets USP standards.

SECTION 16: Other Information

- **Revision Date:** 23 February 2026
- **Version:** 1.0
- **Disclaimer:** The information herein is based on current knowledge and is provided in good faith for safe handling. It does not constitute a warranty.

