



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

- Lime Oil

According to: GB/T 16483, GB/T 17519; GHS (Rev.9), UN GHS
Product Name: Lime Oil (Cold Pressed)
Product Number: LO-20260224
CAS Number: 8008-26-2
Revision Date: 24 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
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SECTION 1: Identification

1.1 Product Identifiers

- Name: Lime Oil
- Synonyms: Citrus aurantifolia Oil; Mexican Lime Oil
- CAS No.: 8008-26-2
- Main Component: Limonene (138-86-3, ≥60%)

1.4 Uses and Restrictions

- Uses:** Fragrance and flavor ingredient.
- Restrictions: Photosensitizer.** Avoid direct skin contact followed by exposure to sunlight or UV rays. Not for use in products for children under 3 years without proper dilution.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Flammable liquids (Category 3):** H226 - Flammable liquid and vapor.
- Skin irritation (Category 2):** H315 - Causes skin irritation.
- Serious eye irritation (Category 2):** H319 - Causes serious eye irritation.
- Specific target organ toxicity (single exposure) - Narcotic effects (Category 3):** H336 - May cause drowsiness or dizziness.
- Hazardous to the aquatic environment (long-term) (Category 3):** H412 - Harmful to aquatic life with long lasting effects.

2.2 Label Elements

- Pictograms:** (Flame), (Exclamation Mark)
- Signal Word:** WARNING
- Precautionary Statements:**
 - P210: Keep away from heat, sparks, open flames, and hot surfaces.
 - P233: Keep container tightly closed.
 - P280: Wear protective gloves/eye protection.
 - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
 - P332+P313: If skin irritation occurs: Get medical advice/attention.
 - P391: Collect spillage.
 - P501: Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition/Information on Ingredients

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Component	CAS No.	Concentration	GHS Classification
Limonene	138-86-3	60.0 - 70.0%	H226, H304 (Aspiration), H315, H319, H412
β-Pinene	127-91-3	5.0 - 10.0%	H226, H336
Citral	5392-40-5	1.0 - 3.0%	H317 (Sensitizer), H315, H319
Other Terpenes -		Balance	Non-hazardous

SECTION 4: First Aid Measures

- Inhalation:** Remove victim to fresh air. Keep warm and at rest. If dizziness occurs, get medical attention.



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- **Skin Contact:** Wash immediately with plenty of soap and water. Remove contaminated clothing. If irritation or rash occurs, get medical attention. **Advise against sun exposure** for 48 hours.
- **Eye Contact:** Rinse immediately with plenty of water, holding eyelids open for at least 15 minutes. Remove contact lenses if present. Get medical attention if irritation persists.
- **Ingestion: Do NOT induce vomiting** if unconscious. Rinse mouth with water. If large amounts are ingested, get medical attention immediately. (Note: Small amounts in food flavoring are safe.)

SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Dry chemical powder, carbon dioxide (CO₂), foam.
- **Unsuitable Media:** Water jet (may spread the fire).
- **Specific Hazards:** Vapors are heavier than air and may travel to a source of ignition and flash back. Burning may produce carbon monoxide and acrid smoke.
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full fire protective clothing. Cool containers with water spray until well after the fire is out.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Eliminate all ignition sources. Wear protective gloves and safety goggles. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent product from entering drains, sewers, rivers, or lakes.
- **Methods for Clean-Up:** Absorb spill with inert material (sand, diatomaceous earth). Transfer to a labeled, sealable container for disposal. Wash area with detergent and water.

SECTION 7: Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid contact with skin and eyes. Do not ingest or inhale vapors. Wash hands thoroughly after handling. **Avoid exposure to sunlight/UV** after handling.
- **Storage:** Store in a cool, dry, well-ventilated warehouse. Keep away from heat, sparks, and open flame. Store in original tightly closed amber glass containers. Keep away from strong oxidizers.

SECTION 8: Exposure Controls/Personal Protection

- **PPE:**
 - **Eyes:** Chemical splash goggles.
 - **Skin:** Nitrile gloves and protective clothing.
 - **Respiratory:** Organic vapor respirator if ventilation is inadequate.
- **Engineering Controls:** Use local exhaust ventilation to maintain vapor concentrations below exposure limits.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Pale yellow to greenish clear liquid.
- **Odor:** Strong, fresh citrus.
- **pH:** Not applicable (oil).
- **Melting Point:** < -60°C.
- **Boiling Point:** 176 - 178°C (for Limonene).
- **Flash Point:** 45°C (Closed cup).
- **Relative Density:** 0.849 - 0.856 (20/20°C).
- **Vapor Pressure:** ~1.5 hPa (20°C).
- **Solubility:** Insoluble in water; miscible with ethanol, ether, and fixed oils.

SECTION 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Hazardous Reactions:** Reacts violently with strong oxidizing agents (e.g., chlorine, peroxides).



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- **Hazardous Decomposition:** On heating or combustion, produces carbon monoxide and carbon dioxide.
- **Conditions to Avoid:** Heat, direct sunlight, ignition sources, and contact with strong oxidizers.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) > 5000 mg/kg. Relatively non-toxic.
- **Skin Irritation:** May cause redness and irritation, especially with prolonged contact.
- **Skin Sensitization:** Contains Citral, which may cause allergic reactions in susceptible individuals (H317).
- **Photosensitivity:** Contains furocoumarins which can cause severe skin reactions when exposed to UV light.
- **Carcinogenicity:** IARC: Not classified as carcinogenic.

SECTION 12: Ecological Information

- **Aquatic Toxicity:** Harmful to aquatic life with long-lasting effects (H412).
- **Persistence and Degradability:** Biodegradable under aerobic conditions.
- **Bioaccumulation:** Unlikely to bioaccumulate significantly.

SECTION 13: Disposal Considerations

- Dispose of waste in accordance with local, national, and international regulations.
- This material is classified as hazardous waste due to its flammability and aquatic toxicity.
- Incinerate in a licensed facility equipped with appropriate emission controls. Do not discharge into the environment.

SECTION 14: Transport Information

- **UN Number:** 1993
- **UN Proper Shipping Name:** Flammable liquids, n.o.s. (Lime Oil)
- **Transport Class:** 3 (Flammable Liquid)
- **Packing Group:** III
- **Marine Pollutant:** No
- **Labeling:** Flammable Liquid.

SECTION 15: Regulatory Information

- **China:** Complies with the Cosmetic Safety Technical Specifications (2021) and GB 2760.
- **EU:** REACH registered. Complies with CLP. Labeling required for photosensitivity and sensitization (Citral).
- **USA:** TSCA listed. FDA approved for food use (21 CFR § 182.20). California Prop 65: Contains Limonene (may cause cancer).

SECTION 16: Other Information

- **Revision Date:** 24 February 2026
- **Version:** 1.0
- **Disclaimer:** The information contained herein is based on current knowledge and is provided for safe handling. It does not constitute a warranty of fitness for any particular purpose.