



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)

Issued Date: February 18, 2026 | **Revision:** 1.0 | **Language:** English **Product:** Farnesol | **CAS:** 4602-84-0 | **EC:** 225-004-1 **Prepared by:** [Your Company Name] | [Address] | [Phone] | [Email]

1. Identification

- **Product Use:** Fragrance raw material, cosmetic active, and flavoring agent (industrial/commercial).
- **Supplier:** NEWAY SINOPHC TECH. LIMITED
- **Emergency Phone:** +86-021-50350029.

2. Hazards Identification

- **GHS Classification (EU CLP):** Skin Sens. 1 (H317), Eye Irrit. 2 (H319), Aquatic Chronic 3 (H412).
- **GHS Labels:** Warning (W); Pictograms: Xi (Irritant), Aquatic Hazard.
- **Hazard Statements:**
 - H317: May cause an allergic skin reaction.
 - H319: Causes serious eye irritation.
 - H412: Harmful to aquatic life with long-lasting effects.
- **Precautionary Statements:**
 - P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 - P272: Contaminated work clothing should not be allowed out of the workplace.
 - P280: Wear protective gloves/eye protection/face protection.
 - P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 - P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 - P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

- **Active Ingredient:** Farnesol (100%, CAS 4602-84-0).
- **Impurities:** ≤ 2.0% (isomers, oxidation products, water).

4. First-Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen and call a physician.
- **Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water for 15 minutes. If rash or irritation develops, seek medical attention.
- **Eye Contact:** Rinse eyes continuously with running water for 15–20 minutes (remove contact lenses if possible). Call a physician immediately.
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control center immediately.

5. Fire-Fighting Measures

- **Flash Point:** ≥ 110°C (Closed Cup) | **Autoignition Temp.:** ~390°C.
- **Extinguishing Media:** Dry chemical, CO₂, foam, or water spray (to cool containers).
- **Fire Hazards:** Combustible liquid. Vapors may form explosive mixtures with air at high temperatures.
- **Hazardous Combustion Products:** Carbon monoxide (CO), carbon dioxide (CO₂).
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full fire-fighting gear.

6. Accidental Release Measures

- **Personal Precautions:** Wear appropriate PPE (gloves, goggles, respirator). Ensure adequate ventilation.



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- **Spill Handling:** Absorb with inert material (e.g., sand, vermiculite). Transfer to a labeled, sealed container for disposal. Do not flush to sewer or waterways.

- **Environmental Precautions:** Prevent spillage from entering drains, sewers, rivers, or soil.

7. Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid skin and eye contact. Do not eat, drink, or smoke while handling. Minimize exposure to air to prevent oxidation.
- **Storage:** Store in a cool, dry place at 5–25°C. Keep container tightly closed. Inert gas (nitrogen) blanketing is recommended to extend shelf life. Store away from strong oxidizers and heat sources.
- **Shelf Life:** 18 months (unopened, proper storage conditions).

8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** No established OEL for Farnesol. Follow fragrance industry guidelines.
- **Engineering Controls:** Local exhaust ventilation (LEV) to keep vapors below exposure limits.
- **Personal Protection:**
 - Gloves: Nitrile or butyl rubber (replace regularly).
 - Eyes: Chemical splash goggles.
 - Skin: Protective lab coat or coveralls.
 - Respiratory: Organic vapor cartridge respirator if vapors are present above recommended levels.

9. Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow clear liquid.
- **Odor:** Floral, balsamic, woody (lily note).
- **Molecular Formula:** C₁₅ H₂₆ O | **Molecular Weight:** 222.37 g/mol.
- **Relative Density (20/20°C):** 0.880–0.888.
- **Refractive Index (20°C):** 1.483–1.489.
- **Boiling Point:** ~263°C (may decompose).
- **Flash Point:** ≥ 110°C (Closed Cup).
- **Vapor Pressure (20°C):** ≤ 0.001 mmHg (very low).
- **Solubility:** Soluble in ethanol, ether, propylene glycol; slightly soluble in water.

10. Stability and Reactivity

- **Stability:** Stable under normal conditions. **Oxidizes readily** on exposure to air and light, forming peroxides.
- **Hazardous Reactions:** Reacts with strong oxidizers (e.g., peroxides, nitric acid) to produce toxic fumes.
- **Hazardous Decomposition Products:** Carbon monoxide (CO) and carbon dioxide (CO₂) when burned; peroxides from oxidation.

11. Toxicological Information

- **Acute Toxicity:** Oral LD₅₀ (rat) > 5,000 mg/kg; Dermal LD₅₀ (rabbit) > 2,000 mg/kg; Inhalation LC₅₀ (rat) > 4,000 mg/m³ (4h).
- **Skin Irritation:** Mild irritation (rabbit test).
- **Eye Irritation:** Moderate irritation (rabbit test).
- **Skin Sensitization:** Positive (may cause allergic contact dermatitis in sensitive individuals).
- **Chronic Toxicity:** No evidence of carcinogenicity, mutagenicity, or reproductive toxicity in standard tests.

12. Ecological Information

- **Aquatic Toxicity:** LC₅₀ (fish, 96h) = 1.0–2.0 mg/L; EC₅₀ (Daphnia, 48h) = 0.5–1.0 mg/L.
- **Persistence:** Biodegradable (≥ 70% in 28 days, OECD 301).

- **Bioaccumulation:** Low potential (log Kow = 5.3, BCF < 200).
- **Environmental Hazard:** Harmful to aquatic life with long-lasting effects (H412).

13. Disposal Considerations

- **Waste Disposal:** Dispose of unused product or waste in accordance with local, regional, and national regulations. Incineration with an afterburner and scrubber is recommended for organic waste.
- **Container Disposal:** Rinse containers thoroughly to remove residues. Recycle or dispose of as hazardous waste if contaminated.

14. Transport Information

- **UN Number:** Not regulated (non-hazardous for transport).
- **UN Proper Shipping Name:** Not applicable.
- **Transport Class:** Not applicable.
- **Packing Group:** Not applicable.
- **Marine Pollutant:** No.

15. Regulatory Information

- **REACH:** Registered (EC No. 225-004-1). Compliant with Annex XVII.
- **CosIng:** Listed (INCI: Farnesol) – approved for cosmetic use.
- **FEMA:** GRAS (FEMA 2478) – approved for food flavor use.
- **FDA:** 21 CFR compliant for food and cosmetic applications.
- **EU Flavoring Regulation:** Approved as a flavoring substance (FL-no: 02.056).

16. Other Information

- **Revision Date:** February 18, 2026.
- **Disclaimer:** This MSDS is based on current scientific and technical data as of the issued date. It is intended for industrial and commercial use only. Users are responsible for complying with all local regulations and conducting their own risk assessments for specific applications.