



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)

- Nutmeg Oil

According to: GB/T 16483, GB/T 17519; GHS (Rev.9), IMDG, IATA **Product Name:** Nutmeg Oil (Steam Distilled) **Product Number:** NO-20260223 **CAS Number:** 8008-45-3 **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: Nutmeg Oil
- Synonyms: Myristica fragrans Oil; Nutmeg Essential Oil
- CAS No.: 8008-45-3
- Main Components: Sabinene (3387-41-5), Myristicin (607-91-0, 2-8%)

1.4 Uses and Restrictions

- Uses:** Food flavor, fragrance ingredient, cosmetic additive, aromatherapy oil.
- Restrictions: Contains Myristicin.** Do not use undiluted on skin. Avoid use in products for pregnant/nursing women or children under 6 years. Do not ingest undiluted.

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.
- Specific target organ toxicity (repeated exposure) (Category 2):** H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure if misused.

2.2 Label Elements

- Pictograms:** (Flame), (Exclamation Mark)
- Signal Word:** WARNING
- Precautionary Statements:**
 - P210: Keep away from heat, sparks, open flames, and hot surfaces.
 - P264: Wash skin thoroughly after handling.
 - P280: Wear protective gloves/eye protection.
 - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P332+P313: If skin irritation occurs: Get medical advice/attention.
 - P403+P235: Store in a well-ventilated place. Keep cool.
 - P501: Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	Concentration (%)	GHS Classification
Sabinene	3387-41-5	25.0 - 40.0	H226, H336
α -Pinene	80-56-8	10.0 - 20.0	H226, H336, H412
Myristicin	607-91-0	2.0 - 8.0	H373 (CNS effects)
Other Terpenes/Esters -		Balance	Non-hazardous

SECTION 4: First Aid Measures

- Inhalation:** Remove victim to fresh air. Keep warm and at rest. If dizziness, drowsiness, or respiratory irritation persists, call a physician.



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- **Skin Contact:** Remove contaminated clothing and shoes. Wash skin immediately with plenty of soap and water for at least 15 minutes. If irritation, redness, or rash occurs, get medical attention.
- **Eye Contact:** Rinse eyes continuously with plenty of running water for at least 15 minutes, holding eyelids open. Remove contact lenses if present. Call a physician immediately if irritation or pain persists.
- **Ingestion: Do NOT induce vomiting** (risk of aspiration). Rinse mouth with water. If large amounts are ingested or if the person is drowsy/unconscious, call a physician or poison center immediately. Provide this MSDS.

SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Dry chemical powder, carbon dioxide (CO₂), foam, water spray (fog).
- **Unsuitable Media:** Direct high-pressure water jet (may spread the burning liquid).
- **Specific Hazards:** Vapors are heavier than air and may travel to a source of ignition and flash back. Combustion may produce carbon monoxide and irritating fumes (including oxides of carbon).
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full fire protective clothing. Cool exposed containers with water spray until well after the fire is extinguished. Fight fire from upwind.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Evacuate unnecessary personnel. Eliminate all ignition sources (no smoking, sparks, flames). Wear nitrile gloves, safety goggles, and a protective lab coat. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent spilled liquid from entering drains, sewers, rivers, or other water bodies. Contain runoff if possible.
- **Clean-Up Methods:** Absorb the spill with inert material (e.g., sand, diatomaceous earth, vermiculite). Transfer the contaminated absorbent to a labeled, sealable container for disposal. Wash the area with detergent and water. Dispose of waste according to local regulations.

SECTION 7: Handling and Storage

- **Handling:** Use only in a well-ventilated area. Avoid contact with skin, eyes, and clothing. Do not inhale vapors or mists. Wash hands thoroughly with soap and water after handling. Do not eat, drink, or smoke in the work area. Use non-sparking tools and equipment.
- **Storage:** Store in a cool, dry, well-ventilated warehouse at 5-25°C. Keep container tightly closed when not in use. Store away from heat, sparks, open flames, and strong oxidizing agents (e.g., hydrogen peroxide, chlorine). Use amber glass containers to protect from light.

SECTION 8: Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** No specific OEL for Nutmeg Oil mixture. Refer to individual components (e.g., Pinene).
- **Engineering Controls:** Use local exhaust ventilation to minimize vapor exposure, especially during dispensing or heating.
- **Personal Protective Equipment (PPE):**
 - **Eyes:** Chemical splash goggles.
 - **Skin:** Nitrile gloves (avoid latex) and impervious protective clothing.
 - **Respiratory:** Organic vapor respirator if ventilation is inadequate or during large spills.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Pale yellow clear liquid.
- **Odor:** Warm, spicy, woody nutmeg.



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- **pH:** Not applicable (oil).
- **Melting Point:** < -20°C.
- **Boiling Point:** 160 - 180°C (mixture).
- **Flash Point:** ≥ 70°C (Closed Cup).
- **Relative Density (20/20°C):** 0.880 - 0.910.
- **Vapor Pressure:** < 1 hPa (20°C).
- **Viscosity:** Low (mobile liquid).
- **Solubility:** Insoluble in water; miscible with ethanol, ether, chloroform, and fixed oils.

SECTION 10: Stability and Reactivity

- **Stability:** Chemically stable under recommended storage and handling conditions.
- **Hazardous Reactions:** Will not occur under normal conditions. Reacts violently with strong oxidizing agents and strong acids.
- **Hazardous Decomposition Products:** On combustion or high temperature decomposition, produces carbon monoxide (CO) and carbon dioxide (CO₂).
- **Conditions to Avoid:** Heat, direct sunlight, ignition sources, contact with strong oxidizers.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) > 5000 mg/kg. LD₅₀ (Dermal, Rabbit) > 2000 mg/kg.
- **Skin Irritation:** Undiluted oil causes moderate skin irritation (redness, edema) in rabbits. Diluted oil (≤1%) is generally non-irritating.
- **Eye Irritation:** Causes serious eye irritation (redness, tearing) upon direct contact.
- **Neurotoxicity:** High doses or prolonged exposure to Myristicin may cause CNS effects (drowsiness, nausea, hallucinations).
- **Carcinogenicity:** IARC, NTP, OSHA: Not classified as a carcinogen.

SECTION 12: Ecological Information

- **Aquatic Toxicity:** Harmful to aquatic life (H412). Components like α-Pinene are toxic to fish and invertebrates.
- **Persistence and Degradability:** Readily biodegradable under aerobic conditions (BOD₅ /COD > 0.5).
- **Bioaccumulation Potential:** Low (log Kow < 4 for main components). Unlikely to bioaccumulate in the food chain.

SECTION 13: Disposal Considerations

- Dispose of waste oil, contaminated absorbents, and packaging in accordance with local, national, and international environmental regulations.
- This material is classified as **hazardous waste** due to its flammability and aquatic toxicity.
- Incinerate in a licensed waste incineration plant equipped with appropriate emission control systems. Do not discharge into the environment.

SECTION 14: Transport Information

- **UN Number:** 1993
- **UN Proper Shipping Name:** Flammable liquids, n.o.s. (Nutmeg Oil)
- **Transport Class:** 3 (Flammable Liquid)
- **Packing Group:** III
- **Marine Pollutant:** No
- **Labeling:** Flammable Liquid (3).
- **Special Precautions:** Transport in closed, amber glass or stainless steel containers. Avoid exposure to heat and sunlight during transit.

SECTION 15: Regulatory Information

- **China:** Complies with the Cosmetic Safety Technical Specifications (2021) and GB 2760 (Food Additive Standard).



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- **EU:** REACH registered. Complies with CLP and Cosmetics Regulation (EC 1223/2009). Adheres to IFRA restrictions on Myristicin.
- **USA:** TSCA listed. FDA approved for food use as a flavoring agent (21 CFR § 182.20).
- **International:** Complies with ISO 4720 (Essential Oils - General Test Methods).

SECTION 16: Other Information

- **Revision Date:** 23 February 2026
- **Version:** 1.0
- **Disclaimer:** The information contained herein is based on current scientific knowledge and industry standards. It is provided for the purpose of safe handling, storage, and use. The supplier assumes no liability for damages resulting from improper use or non-compliance with safety precautions.

