

Safety Data Sheet (MSDS)

- Patchouli Oil

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards) **Product**

Name: Patchouli Oil **Revision Date:** 22 FEB 2026

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Product Name: Patchouli Oil
- Synonyms: Pogostemon cablin oil; Natural patchouli essential oil; Dark patchouli oil
- Product Number: POL-20260222
- Brand: SIGALD
- CAS-No.: 8014-89-7
- MDL Number: MFCD00148101
- Main Component: Patchoulol (CAS: 5986-55-0, ≥25%)
- Molecular Weight: Variable (natural mixture)

1.2 Details of the supplier of the safety data sheet

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE
- Telephone: +86-021-50350029
- Fax: +86-021-50350029

1.3 Emergency telephone

- Emergency Phone #: +86-021-50350029 (CHEMTREC)

1.4 Relevant Identified Uses and Uses Advised Against

- **Identified Uses:** Fragrance & flavor industry (perfume base); cosmetic formulation; incense & aromatherapy; insect repellent; textile dyeing auxiliary.
- **Uses Advised Against:** Direct undiluted skin contact (may cause sensitization); use in infant products (0-3 years) without expert approval; use near open flame/high temperature without protection.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Flammable Liquid, Category 4 (H227)
- Skin Sensitization, Category 1 (H317)
- Eye Irritation, Category 2 (H319)
- Aquatic Acute Toxicity, Category 3 (H402)
- Aquatic Chronic Toxicity, Category 3 (H412)

2.2 GHS Label Elements

- **Hazard Pictograms:** (Exclamation mark)
- **Signal Word:** Warning
- **Hazard Statements:**
 - H227: Combustible liquid
 - H317: May cause an allergic skin reaction
 - H319: Causes serious eye irritation
 - H402: Harmful to aquatic life
 - H412: Harmful to aquatic life with long-term effects
- **Precautionary Statements:**
 - P210: Keep away from heat, sparks, open flames and hot surfaces
 - P261: Avoid breathing vapor/spray
 - P272: Contaminated work clothing should not be allowed out of the workplace



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- P273: Avoid release to the environment
- P280: Wear protective gloves/eye protection
- P302+P352: If on skin: Wash with plenty of soap and water
- P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention
- P362: Take off contaminated clothing and wash before reuse
- P370+P378: In case of fire: Use dry powder, CO₂ or foam for extinction
- P501: Dispose of contents/container to an approved waste disposal plant

2.3 Physical and Chemical Hazards

Combustible liquid (high viscosity, flash point >60°C); no explosive hazard; darkens with age (natural oxidation, non-hazardous); no corrosive properties.

2.4 Health Hazards

- **Acute:** Causes serious eye irritation; inhalation of concentrated vapor may cause mild dizziness.
- **Chronic: Primary hazard is skin sensitization** – repeated contact can cause delayed allergic reactions (rash, itching) in susceptible individuals.

2.5 Environmental Hazards

Harmful to aquatic life with acute and long-term effects; low bioaccumulation potential.

SECTION 3: Composition/Information on Ingredients

- **Substance / Mixture:** Natural essential oil mixture (steam-distilled from *Pogostemon cablin* leaves)
- **Main Active Component:** Patchoulol (C₁₅ H₂₆ O, CAS 5986-55-0, 25.0-35.0%)
- **Other Minor Components:** Alpha-Bulnesene, Seychellene, Patchoulenol (natural trace amounts)

Hazardous Ingredients	CAS No.	Concentration (w/w)	GHS Classification
Patchoulol	5986-55-0	25.0-35.0%	H317, H402, H412
Patchouli Oil (mixture)	8014-89-7	100%	H227, H317, H319, H402, H412

SECTION 4: First Aid Measures

4.1 Description of First-Aid Measures

- **If Inhaled:** Remove to fresh air. Rest and keep warm. If symptoms persist, call a doctor.
- **In Case of Skin Contact:** Wash immediately with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. **If a rash or irritation develops, do not reapply and seek medical advice.**
- **In Case of Eye Contact:** Rinse immediately with plenty of water for 15-20 minutes, holding eyelids open. Remove contact lenses if present. Call a doctor immediately.
- **If Swallowed:** Rinse mouth with water. Do NOT induce vomiting. Call a poison center or doctor immediately, especially if large quantities are ingested.

4.2 Most Important Symptoms and Effects

- **Acute:** Eye redness, tearing, pain; skin redness.
- **Delayed:** Skin rash, itching, and blistering (allergic reaction) may appear 24-48 hours after contact.

4.3 Notes to Physician

Treat symptomatically. Advise physician of the potential for skin sensitization (Type IV hypersensitivity reaction).

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- **Suitable:** Dry chemical powder, Carbon Dioxide (CO₂), Foam.

- **Unsuitable:** Water jet (ineffective due to high viscosity and density).

5.2 Special Hazards Arising from the Substance

Combustion may produce carbon monoxide (CO) and irritating smoke. Vapors are heavier than air and may travel to ignition sources.

5.3 Advice for Firefighters

Wear self-contained breathing apparatus (SCBA) and full protective clothing. Cool containers with water spray until well after the fire is out.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

Wear nitrile gloves, safety goggles, and a respirator if vapors are present. Eliminate all ignition sources.

6.2 Environmental Precautions

Prevent from entering drains, sewers, or waterways. Use sand or absorbent to contain spillage.

6.3 Methods and Materials for Containment and Cleaning Up

- **Small Spill:** Absorb with inert material (sand, diatomaceous earth). Scoop into a sealable container for disposal.
- **Large Spill:** Dike with sand. Pump into a sealable drum. Dispose of according to regulations.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Avoid skin and eye contact. Use in a well-ventilated area. **Perform a patch test before using in cosmetic formulations** to check for sensitization. Do not eat, drink or smoke while handling.

7.2 Conditions for Safe Storage

- **Storage:** Store in a cool, dark, well-ventilated area.
- **Temperature:** 10-25°C.
- **Incompatibilities:** Strong oxidizing agents, strong acids.
- **Shelf Life:** 36 months (unopened). *Note: Darkening of color over time is natural and does not indicate spoilage.*

SECTION 8: Exposure Controls/Personal Protection

8.1 Personal Protective Equipment (PPE)

- **Eye/Face:** Chemical safety goggles.
- **Skin:** Nitrile rubber gloves (latex is not recommended).
- **Respiratory:** Organic vapor cartridge respirator if ventilation is poor.

SECTION 9: Physical and Chemical Properties

1. **Physical State:** Viscous liquid
2. **Color:** Dark amber to brown
3. **Odor:** Strong, earthy, musky, woody
4. **Boiling Point:** > 200°C (decomposes)
5. **Flash Point:** 88°C (Closed Cup)
6. **Relative Density:** 0.950 - 0.970 (20/20°C)
7. **Refractive Index:** 1.5050 - 1.5150 (20°C)
8. **Optical Rotation:** -60.0° to -45.0° (20°C)
9. **Solubility:** Soluble in 95% ethanol, ether, fixed oils; Insoluble in water.
10. **Viscosity:** High (100-200 mPa·s at 25°C)

SECTION 10: Stability and Reactivity

Stable under normal conditions. Oxidizes slowly upon exposure to air and light, resulting in a darker color and deeper aroma (considered desirable in the fragrance industry).

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) > 5000 mg/kg; LD₅₀ (Dermal, Rabbit) > 5000 mg/kg.
- **Skin Sensitization:** Positive (Guinea Pig test). This is the key health hazard.
- **Carcinogenicity:** IARC Group 3 (Not classifiable as to its carcinogenicity to humans).

SECTION 12: Ecological Information

- **Toxicity:** Toxic to aquatic life (H402).
- **Biodegradability:** Readily biodegradable (>70% in 28 days).

SECTION 13: Disposal Considerations

Dispose of as combustible hazardous waste. Contact a licensed waste disposal company. Do not pour down the drain.

SECTION 14: Transport Information

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

SECTION 15: Regulatory Information

- **EU:** REACH Registered, Compliant with EC 1223/2009 (Cosmetics). **IFRA Restriction:** Maximum use levels apply in leave-on products due to sensitization potential.
- **US:** TSCA Listed, FDA approved for food flavor use (minor amounts).
- **China:** Compliant with GB 2760-2021 and Cosmetic Safety Technical Specification.

SECTION 16: Other Information

Revision Note: First revision. **Contact:** NEWAY SINOPHC TECH. LIMITED, Tel: +86-021-50350029