



RV INTERNATIONAL

Essential Oils Manufacturer & Bulk Supplier in India

GST NO. 06BGIPG9360E1ZF

Address: Opposite Sudhanshu Maharaj Ashram, Shiv Mandir, Nimbri, Panipat, Haryana 132104

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1.1 — PRODUCT IDENTIFICATION

PRODUCT NAME: CLOVE LEAF ESSENTIAL OIL

BOTANICAL NAME: Syzygium aromaticum (syn. Eugenia caryophyllata)

COMMON NAMES: Clove Leaf Oil / Laung Patti Oil

MOLECULAR FORMULA: NOT APPLICABLE

MOLECULAR WEIGHT: NOT APPLICABLE

CAS No.: 8000-34-8

FEMA No.: 2318

PART DISTINCTION: Clove Leaf oil is steam distilled from the LEAVES of Syzygium aromaticum. It is distinct from Clove Bud oil (from flower buds) and Clove Stem oil (from stems). Clove Leaf oil has a higher eugenol content and stronger, harsher character than Clove Bud oil.

SECTION 1.2 — COMPANY IDENTIFICATION

Company Name: RV International

Address: Shiv Mandir, Ujha Rd, Opposite Sudhanshu Aashram, Nimbri, Panipat, Haryana 132104

Telephone: +91 8937003005

Email: info@rvorganica.com

Website: www.rvorganica.com

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	HAZARDOUS STATEMENT
CLOVE LEAF ESSENTIAL OIL (Syzygium aromaticum)	8000-34-8	Contains eugenol — irritant & sensitizer; use with caution

HAZARDOUS CLASSIFICATION: NOT A HAZARDOUS SUBSTANCE — HOWEVER REQUIRES SIGNIFICANT CAUTION DUE TO HIGH EUGENOL CONTENT.

*PERSONAL CARE, COSMETIC & AROMATHERAPY PURPOSE. Clove Leaf essential oil is steam distilled from the leaves of Syzygium aromaticum — the clove tree. It is composed predominantly of eugenol (75–85%) — a phenolic compound that gives clove its characteristic warm, spicy, medicinal aroma. Eugenol is both an irritant and a sensitizer at elevated concentrations, and IFRA imposes strict usage limits on eugenol-containing oils. Clove Leaf oil must always be used at very low dilutions on skin.

SECTION 3: HAZARD IDENTIFICATION



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CAUTION: High eugenol content — strong irritant and sensitizer. Must be used at very low dilutions only. IFRA usage limits apply.

Eye Contact: Strong irritant — will cause significant irritation; avoid all direct contact

Skin Contact: STRONG IRRITANT when undiluted — eugenol causes skin burns and sensitization; maximum 0.5% for leave-on skin products

Inhalation: Concentrated vapor is irritating to mucous membranes — use only in well-ventilated areas

Ingestion: TOXIC in significant quantities. NOT FOR INTERNAL USE as a cosmetic product.

SECTION 4: FIRST AID MEASURES

Eyes: Flush immediately with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin: Remove contaminated clothing. Wash with soap and flush with plenty of water. Seek medical attention if burns, irritation, or allergic reaction develops.

Ingestion: Rinse mouth and drink water to dilute. Seek medical attention immediately — eugenol is hepatotoxic in large quantities.

Inhalation: Remove to fresh air. Seek medical attention if respiratory symptoms develop.

SECTION 5: FIRE AND EXPLOSION DATA

Flash Point (Method Used): >92°C Close Cup

Extinguishing Media: Dry Chemical, Carbon Dioxide, Foam

Unsuitable Media: Water (except to cool containers)

Special Firefighting Procedures: Fire fighters should wear positive pressure self-contained breathing apparatus. Cool containers exposed to flame with water.

Unusual Fire & Explosion Hazards: Not established

Hazardous Decomposition Materials: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear chemical resistant gloves, eye protection, and apron. Avoid skin contact and inhalation. Ventilate area well.

Methods for Cleaning Up: Eliminate all sources of ignition. Ventilate area. Prevent liquid from entering sewers.

- Small spills: wipe up with paper rags (place in closed metal waste container)
- Large spills: absorb onto non-flammable absorbent. Wash area with soap and water.

SECTION 7: HANDLING AND STORAGE

Safe Handling: Avoid ingestion and undiluted skin contact. Always dilute heavily — maximum 0.5% for leave-on skin products. Wear gloves when handling. Avoid inhalation of concentrated vapors.

Storage Requirements: Store in a cool, dark, dry, well-ventilated area. Keep tightly sealed. Temperature below 25°C.



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SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Threshold Limit Value: Not established for clove leaf oil; Eugenol: use with caution

Work Practice Controls: Strict personal hygiene protocols. Gloves mandatory.

- Wear chemical resistant gloves when handling undiluted oil
- Avoid concentrated vapor inhalation
- Wash hands thoroughly after handling

Respiratory: Avoid concentrated inhalation — use in well-ventilated areas

Ventilation: Local mechanical exhaust recommended when handling in bulk

Eye: Wear chemical goggles or safety glasses

Skin: Chemical resistant gloves mandatory when handling undiluted oil

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid, Oil

Color: Pale Yellow to Brown

Odor: Characteristic spicy, warm, clove, slightly woody clove leaf scent

Vapor Pressure (mmHg.): Not available

Flash Point: >92°C (Closed Cup) — high flash point

Boiling Point: Not available

Melting Point: NA

Density @25°C: 1.042

Refractive Index @25°C: 1.528

Solubility in Water: Slightly soluble

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions; eugenol may oxidise on prolonged air exposure

Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents and hot sources of ignition.

Conditions to Avoid: Avoid contact with sparks, flame, heat, and direct sunlight.

Hazardous Decomposition By-products: Phenolic compounds and smoke on combustion.

Hazardous Polymerization: Will Not Occur

SECTION 11: TOXICOLOGICAL INFORMATION

■ **CAUTION: High eugenol content (75–85%) — strong irritant and sensitizer. IFRA usage limits apply. NOT for use near eyes, mucous membranes, or in undiluted form.**

Primary Component of Concern: Eugenol (75–85%) — phenolic compound; irritant, sensitizer, and hepatotoxic in large oral doses



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Irritancy: STRONG irritant when undiluted — can cause skin burns

Sensitization: Known sensitizer — individuals sensitive to eugenol, clove, cinnamon, or Peru Balsam should avoid use

IFRA Limit: Eugenol is subject to IFRA restrictions; maximum 0.5% for leave-on products; 5% for rinse-off

Hepatotoxicity: Eugenol is hepatotoxic in large oral doses — strictly for external cosmetic use only

Contraindications: Pregnancy, breastfeeding, children under 2 years, individuals with eugenol/clove sensitivity

Note: Clove Leaf oil is harsher and higher in eugenol than Clove Bud oil. It must be used at very low dilutions — even 1% may cause irritation in sensitive individuals. Always patch test. Never apply undiluted. Keep away from children.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal Methods: Dispose of according to local, state and federal regulations. Do not pour down drains.

SECTION 14: OTHER REGULATORY INFORMATION

CAS NO: 8000-34-8

FEMA No.: 2318

Primary Hazardous Constituent: Eugenol (75–85%) — irritant, sensitizer, hepatotoxic in large oral doses

IFRA Status: Eugenol subject to IFRA usage limits — maximum 0.5% in leave-on products

Cross-Reactivity: Peru Balsam, Tolu Balsam, cinnamon, vanilla — eugenol-containing materials

Contraindications: Pregnancy, breastfeeding, children under 2, eugenol/clove sensitivity

Hazards: Strong irritant; known sensitizer; high eugenol content

Safety Phrases: NEVER apply undiluted. Maximum 0.5% dilution for leave-on skin products. Patch test essential. Wear gloves. Avoid eyes and mucous membranes. Keep away from children. Not during pregnancy.

SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The information contained in this Material Safety Data Sheet is obtained from current and reliable sources. The information contained herein is true and to the best of RV International's knowledge. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations.



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