



## Material Safety Data Sheet

### *Clove bud Oil*

#### Section 1.1 – Product Identification

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**Product name** : Clove bud oil  
**Botanical Name** : Syzygium aromaticum L.  
**CAS #** : 8000-34-8

#### Section: 1.2 – Company Identification

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**Company Name:** Indenta Chemicals (India) Pvt. Ltd.  
**Address:** 201, Adamji Building, 413, Narshi Natha Street, Mumbai -400 009. (India)  
**Telephone #:** +91-22-23449820 / 23411655  
**Fax #:** +91-22-23432060

#### Section 2: Hazard Identification

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##### Potential Health Effects

**Eyes:** May cause eye irritation. The toxicological properties of this material have not been fully investigated.

**Skin:** May cause skin irritation. The toxicological properties of this material have not been fully investigated.

**Ingestion:** May causes gastrointestinal irritation with nausea, vomiting and diarrhea.

**Inhalation:** May cause respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

**Chronic Exposure:** No information found.

#### Section 3: Composition / Ingredient Information

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**Contents:** Eugenol: 70–86%  
Eugenol Acetate: >15 %  
β-Caryophyllene: 5.0–12 %

#### Section 4: First Aid Measures

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**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eyes:** Flush with plenty of water or eye wash. Consult a physician.

**Skin:** Wash off soap and water. Get medical attention if irritation persists.

**Ingestion:** Seek immediate medical advice

**Inhalation:** If breathed in, move person into fresh air. Consult a physician.

#### Section 5: Fire Fighting Measures

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**Flash Point:** >100°C

**Suitable extinguishing media:** Use dry chemical or CO<sub>2</sub>, alcohol-resistant foam, water spray.

**Special protective equipment:** Wear self-contained breathing apparatus for firefighting if necessary.

**Decomposition Materials:** Carbon Dioxide, Carbon Monoxide.

## Section 6: Accidental Release Measures

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**Environmental Precautions:** Keep away from drains, surface and ground water. Report spills to appropriate authorities if required.

**Methods for cleaning up:** Absorb onto an inert, absorbent substrate and sweep up. Wash area with soap and water.

**Safety Precautions:** Eliminate all ignition sources. Ventilate area.

## Section 7: Handling And Storage

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**Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from fire and open flames.

**Storage:** Store in cool, dry and well-ventilated area protected in tightly closed container away from sources of ignition, heat and sunlight.

## Section 8: Exposure Control / Personal Protection

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**Work/Hygiene Practice:** Normal work and hygiene practices for handling non-hazardous liquid material.

**Eye:** Safety glasses should be worn.

**Skin/Body:** Using chemically resistant clothes and gloves are recommended.

**Respiratory:** Not needed under normal conditions of use.

**Other:** Evaluate need based on application. Slip proof shoes may be worn where spills may occur.

## Section 9: Physical And Chemical Properties

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TESTS	SPECIFICATIONS
<b>Appearance</b>	Yellow to grey brown clear liquid.
<b>Odor</b>	Characteristic clove odor.
<b>Solubility</b>	Soluble in alcohol and oils. Insoluble in water.
<b>Specific Gravity</b>	1.0380–1.0600@ 20°C
<b>Refractive Index</b>	1.528–1.537 @ 20°C
<b>Eugenol Contents</b>	70–86%

## Section 10: Stability And Reactivity

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**Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** Avoid sparks, flame, excessive heat and strong oxidizers and strong acids.

**Hazardous Polymerization:** N/A.

**Hazardous Decomposition products:** None known. When heated to decomposition produces acid fumes and carbon monoxide smoke

## Section 11: TOXICOLOGICAL INFORMATION

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**Inhalation:** Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache,

nausea, and dizziness.

**Skin Contact:** Repeated or prolonged contact can cause redness, irritation and scaling of skin (Dermatitis). Adverse skin effects should be prevented by normal care and personal hygiene.

**Eye Contact:** May irritate eyes.

**Ingestion: Low** order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting.

**Medical Conditions Aggravated by Exposure:** May aggravate dermatitis, psoriasis and other skin conditions.

**Chronic Toxicity:** May cause allergic reactions on skin.

**Carcinogenicity Data:** None of the components of this material are listed as a carcinogen.

**Reproductive Toxicity:** No adverse effects on reproduction are known.

**Acute Toxicity Values:** No data is currently available.

## Section 12: ECOLOGICAL INFORMATION

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**Biodegradation:** Expected to be ultimately biodegradable

**Aquatic Toxicity:** No Data.

**Bacterial Toxicity:** No Data.

## Section 13: DISPOSAL CONSIDERATION

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**Waste Disposable method:** Combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber in accordance with all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Dispose of as unused product. .

## Section 14: Transport Information

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**US DOT Shipping Description:** Not regulated

**IATA Shipping (Air):** Not regulated

**IMDG Shipping Description:** Not regulated

## Section 15: REGULATORY INFORMATION

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**WHMIS (Canada):** N/A

**HMIS (USA):** Health Hazard–0 Fire Hazard–0 Reactivity–0

**SARA 302/ SARA 313:** None

**California Proposition 65:** This product does not contain chemical listed per the Safe Drinking Water and Enforcement Act of 1986.

## Section 16: Additional Information

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