

## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Clove Oil (Bud)
Botanical name	:	Syzygium aromaticum L.
Synonyms	:	Eugenia Caryophyllata
INCI name	:	Eugenia Caryophyllus Bud Oil
CAS #	:	8000-34-8 / 84961-50-2
Country of Origin	:	India
EINECS #	:	284-638-7
Supplier	:	INDO BIO ORGANICS
Address	:	A-004, NEW HIGHWAY PARK E-3 THAKUR COMPLEX, KANDIVALI EAST, MUMBAI – 400101, INDIA
Telephone number	:	022 68537865

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### GHS Classification

Skin Sensitization - Category 1

Hazardous to the aquatic environment, long-term hazard - Category 3

#### GHS Label elements, including precautionary statements



Signal: Warning

<b>Hazard Category:</b>	Acute tox, oral Cat 4 Acute tox, dermal Cat 4 Sensitization, skin Cat 1 Aspiration hazard Cat 1
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<b>Hazard Statements:</b>	H302: Harmful if swallowed H312: Harmful in contact with skin H317: May cause an allergic skin reaction H304: May be fatal if swallowed and enters airways
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<b>Precautionary Statements:</b>	P261: Avoid breathing dust/fume/gas/mist/vapours/spray P264: Wash thoroughly after handling P270: Do not eat, drink or smoke when using this product P272: Contaminated work clothing should not be allowed out of the workplace P280: Wear protective gloves/protective clothing/eye protection/face protection P301+310: IF SWALLOWED: Immediately call a POISON CENTER or
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P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel  
P302+352: IF ON SKIN: Wash with soap and water  
P312: Call a POISON CENTER or doctor/physician if you feel unwell  
P321: Specific treatment (see ... on this label)  
P330: Rinse mouth P331: Do NOT induce vomiting  
P333+313: If skin irritation or a rash occurs: Get medical advice/attention  
P362: Take off contaminated clothing and wash before reuse  
P405: Store locked up  
P501: Dispose of contents/container in accordance with local/national/international rules.

### 3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	Concentration
Eugenol	97-53-0	70 - 90 %
$\beta$ -Caryophyllene	87-44-5	>8%
Eugenyl Acetate	93-28-7	>6%

### 4. FIRST AID MEASURES

**General Info:** ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL INVOLVED, AND TAKE PRECAUTIONS TO PROTECT THEMSELVES. SHOW SDS TO DOCTOR IN ATTENDANCE

**If Ingested:** Rinse mouth with water. Never give anything by mouth to anyone unconscious. Seek immediate medical attention immediately if large quantities have been swallowed.

**If inhaled:** Remove to fresh air. Obtain medical attention if asthma-like symptoms or other symptoms develop. Oxygen may be necessary.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

**Skin Contact:** Take off immediately all contaminated clothing. Rinse with soap and water thoroughly. Get medical advice if irritation develops or persists.

**Additional Info:** Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media** Foam. Dry Powder. Carbon dioxide.

**Unsuitable extinguishing media** Water spray, water jet.

#### **Special protective equipment and precautions for fire-fighters**

Avoid inhalation of generated fumes or vapors. Do not allow the spillage of fire extinguishing to sink into a drainage system or water area. Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

**Special hazards arising from the substance or its combustible products** Hazardous decomposition products may be formed at extreme heat or if burned.

**Resulting gases** Carbon oxides.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures.**

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### **Methods and materials for containment and cleaning up**

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

## Section 7: Handling and Storage

**Safe Handling:** Do not handle until all safety precautions have been read and understood. Do not handle near an open

**Precautions:** Flame or sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment.

**Recommendations:** Store in cool area in product container away from sources of ignition or flame. Store out of direct sunlight.

**For Storage:** Keep air contact to a minimum.

## Section 8: Exposure Control / Personal Protection

**General Engineering Controls:** Local exhaust ventilation should be utilized to control vapors / substances below exposure limits. Eye wash facilities must be available when handling this product.

**Work Clothing:** Protective work clothing which covers skin and prevents exposures.

**Eye/face protection:** Wear safety goggles or face shield.

**Skin Protection:** Wear solvent resistant gloves.

**Respiratory Protection:** Chemical respirator with organic vapor cartridge and full face plate.

**Additional Information:** Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Colorless to amber liquid.
Odor	:	Characteristic clove odor.
Flash point	:	> 100 °
Relative density	:	1.038 to 1.060 @ 25 °C
Solubility	:	Soluble in alcohols, insoluble in water.
Refractive index	:	1.527 to 1.535 @ 25 °C
Optical rotation	:	-1.5° to +3.0° @ 25 °C

## 10. STABILITY AND REACTIVITY

### Reactivity

This material presents no significant reactivity hazard.

### Chemical stability

Chemically stable.

### Possibility of hazardous reactions

Hazardous polymerization will not

occur. **Conditions to avoid**

Avoid sparks, flame and other heat sources.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Carbon Oxides.

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Inhalation of vapors, dermal

*Toxicological Information (contained substances)*

Substance	LD50 Oral	LD50 Dermal
CLOVE BUD OIL	1370mg/kg (Rat)	1200 mg/kg (Rabbit)

**Carcinogenicity:** Not Classified.

**Sensitization:** May cause allergic reactions on skin.

**Inhalation:** If inhaled high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

**Skin contact:** Diverse skin effects should be prevented by normal care and personal hygiene.

**Eye contact:** Possible irritation should be prevented by wearing safety glasses.

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity:** Mild water pollutant

**Degradation / Mobility info:** No specific data available.

**Bioaccumulative potential:** No data established

## 13. DISPOSAL CONSIDERATION

**Product disposal:** Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor. Contains low levels of flammable solvents. Hazardous waste according to Directive 2008/98/EC

**Container disposal:** Treat empty containers with extra care, as residual solvents may pose ignition hazard. Consult waste contractor.

#### 14. TRANSPORT INFORMATION

**US DOT Shipping Description (Land)**

Not regulated.

**IMO-IMDG Shipping Description (Sea)**

Not regulated.

**IATA Shipping Description (Air)**

Not regulated.

#### 15. REGULATORY INFORMATION

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**GHS Hazard Statements**

See Section 2.

**GHS Precautionary Statements**

See Section 2.

#### 16. OTHER INFORMATION

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