

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Organic Clove Bud Essential Oil
Botanical name	:	Syzygium aromaticum L.
Synonyms	:	Eugenia caryophyllus
INCI name	:	Eugenia Caryophyllus Bud Oil
CAS #	:	8000-34-8 / 84961-50-2
Country of Origin	:	Sri Lanka
EINECS #	:	- / 284-638-7
Product use	:	Domestic and Industrial
Supplier	:	New Directions Aromatics Inc.
Address	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax	:	905-362-1926
Telephone number	:	905-362-1915
Emergency phone number	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

### GHS Classification

Acute toxicity - oral - Category 5  
Acute toxicity - dermal- Category 5  
Serious skin corrosion/irritation - Category 3  
Skin sensitization - Category 1  
Serious eye damage/eye irritation - Category 2A  
Hazardous to the aquatic environment - Acute Category 2.

### GHS Label elements, including precautionary statements



Signal: Warning

### Hazard statement(s)

H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.

**Precautionary statement(s)**

P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of 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.
P312	Call a POISON CENTER/ doctor/if you feel unwell.
P321	Specific treatment (see section 4 on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container according to local regulations.

**3. COMPOSITION / INFORMATION INGREDIENTS**

Product Name	CAS NO	EC NO	Concentration
Eugenol	-	-	7.0 % - 78.0 %
Beta-Caryophyllene	-	-	10.0 % - 18.0 %
Eugenol Acetate	-	-	2.0 % - 9.0%

**4. FIRST AID MEASURES**

**Eye contact**

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin contact**

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

**Inhalation**

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

**Ingestion**

DO NOT induce vomiting. Rinse mouth with water and seek medical attention or contact local poison control center.

**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**

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**

Provide adequate ventilation to avoid excess inhalation of vapor. Spillage should be cleaned immediately by use of sand or inert powder and it should be kept without contaminating environment.

## **7. HANDLING AND STORAGE**

---

### **Precautions for safe handling**

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool dry and ventilated area, away from heat source and protected from light and under nitrogen surface. Keep away from ignition source and flame.

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

---

### **Exposure controls**

Provide exhaust ventilation or other engineering control to keep the air borne concentration of the vapor below their respective threshold limit value. Ensure that the eye wash stations and safety showers are proximal to the work station.

### **Eyes**

Avoid contact with eye. Use tightly sealed goggles.

### **Skin**

Do not eat, drink, smoke or sniff while working. keep away from food stuffs and beverages. Remove all soiled and contaminated clothing. Wash hands before break and at the end of the work. Avoid contact with eye and skin. If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves and protective work clothing.

### **Respiratory**

In case of insufficient ventilation, wear suitable respiratory equipment.

### **Ingestion**

Not for ingestion.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

---

Appearance	:	Colorless to pale yellow clear liquid.
Odor	:	Characteristic clove, fresh odor.

Initial b.p and boiling range	:	251° C @ 760.00mmHg
Flash point	:	87.78 °C
Relative density	:	1.0323 to 1.0750 @ 20°C
Solubility (ies)	:	Soluble in alcohol and oils. Insoluble in water.
Refractive index	:	1.5257 to 1.5380 @ 25°C
Optical rotation	:	-1.50° to -0.70° @ 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

---

### Acute toxicity

Acute oral toxicity (LD50) 1370mg/Kg Rat

Acute Dermal Toxicity (LD50) >1200 mg/Kg Rabbit

### Chronic toxicity

May cause allergic reactions on skin.

### Skin contact

May cause skin sensitization. Adverse skin effects should be prevented by normal care and personal hygiene.

### Eye contact

May be irritating to eye. Possible irritation should be prevented by wearing safety glasses.

### Ingestion

Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting

## 12. ECOLOGICAL INFORMATION

---

### Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.

### Persistence and degradability

Sensitivity to air, light, oxidizing agent, acid and alkali. However long term degradation product may arise.

### Bio - accumulative potential

This product is unlike to accumulate in the environment.

## 13. DISPOSAL CONSIDERATION

---

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local

municipal authority to ensure compliance.

## 14. TRANSPORT INFORMATION

---

### US DOT Shipping Description (Land)

Not regulated.

### IMO-IMDG Shipping Description (Sea)

Not regulated.

### IATA Shipping Description (Air)

Not regulated.

### Emergency action in case of accident

Notify police and fire department immediately

## 15. REGULATORY INFORMATION

---

### California Proposition 65

• This product can expose you to Methyleugenol, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### GHS Hazard Statements

Please refer to section 2.

### GHS Precautionary Statements

Please refer to section 2.

## 16. OTHER INFORMATION

---

Revision date : June 18,2021

### Disclaimer & Caution

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agree that jurisdiction is limited to the province of Ontario, Canada.