

## MSDS SHEET

### 1. Identification of Substance/Preparation & Company

**PRODUCT NAME:** Clove Bud Essential Oil Organic

**BOTANICAL NAME/INCI:** Syzygium Aromaticum L.

**PRODUCT USE:** Aromatherapy/Cosmetic/Perfumery

**ORIGIN:** Sri Lanka

**SUPPLIER:** Botanic Planet Canada Inc.

**ADDRESS:** 2 Bram Ct, Unit # 3-4 Brampton Ontario L6W 3R6 Canada

**CAS Number:** 90082-21-6

**PHONE/FAX:** 905-455-4444 / 905-455-8841

**Emergency Tel No:** (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

### 2. Hazards Identification

#### Emergency Overview

#### GHS Classification

Flammable liquids - Category 4

Acute Toxicity, Oral - Category 5

Skin Irritation - Category 2

Eye Irritation - Category 2A

Specific Target Organ Toxicity - Single Exposure - Category 3

#### GHS Classification



#### GHS Label elements, including precautionary statements

Signal Warning

#### Hazard statement(s)

H227 Combustible liquid.

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation

#### Precautionary statement(s)

P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.

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.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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.  
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.  
P402+P404 Store in a dry place. Store in a closed container.  
P501 Dispose of contents and container in accordance with local, regional, national and/or international regulation for hazardous wastes

### 3. Composition / Information on Ingredients

Product Name	CAS NO	EC NO	Concentration
Clove Bud Essential Oil	8000-34-8	616-772-2	100 %

### 4. First-Aid Measure

**INHALATION:** Remove from exposure site to fresh air. Keep at rest. Obtain medical attention. **EYE CONTACT:** Rinse immediately with plenty of water for at least 15 minutes. Contact a doctor if symptoms persist.  
**SKIN CONTACT:** Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.  
**INGESTION:** Rinse out mouth with water. Seek medical advice immediately.  
**OTHER:** When assessing action take Risk & Safety Phrases into account (Section 15).

### 5. Fire Fighting Measures

**EXTINGUISHING MEDIA:** Use CO<sub>2</sub>, Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.  
**SPECIAL MEASURES:** Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.  
**EXTINGUISHING PROCEDURES:** Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

### 6. Accidental Release Measures

**PERSONAL PRECAUTIONS:** Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (Safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages. **ENVIRONMENT PRECAUTIONS:** Keep away from drains, soils, surface & ground waters. **CLEAN UP METHODS** Remove all potential ignition sources. Contain spilled material. Cover with an inert or **FOR SPILLAGES:** non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe municipal, federal and local disposal regulations.

### 7. Handling & Storage

**PRECAUTIONS IN HANDLING:** Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene. Do not eat, drink or smoke whilst handling. **STORAGE CONDITIONS:** Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.  
**FIRE PROTECTION:** Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

### 8. Exposure Controls/Personal Protection

**RESPIRATORY PROTECTION:** Avoid breathing product vapour. Apply local ventilation where possible.  
**VENTILATION:** Ensure good ventilation of working area.

**HAND PROTECTION:** Avoid all skin contact. Use chemically resistant gloves if required.

**EYE PROTECTION:** Use safety glasses.

**WORK / HYGIENE PRACTICES:** Wash hands with soap & water after handling.

## 9. Physical & 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:** 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 & Reactivity

**REACTIVITY:** It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

**DECOMPOSITION:** Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide and other non-identified organic compounds may be formed.

## 11. Toxicological Information

May be irritation to skin.

## 12. Ecological Information

**BIODEGRADABILITY:** Data not available

**PRECAUTIONS:** Prevent surface contamination of soil, ground & surface water.

## 13. Disposal Considerations

Avoid disposing to drainage systems and into the environment. Seek expert advice.

## 14. Transport Regulations

ROAD (ADR/RID): n/a

AIR (IATA/ICAO): n/a

SEA (IMDG): n/a

CHIP: See section 15

## 15. Regulatory Information

HAZARDS: n/a

SYMBOLS: n/a

RISK PHRASES: n/a

SAFETY PHRASES: n/a

## 16. Other Information



**Shelf life of this product depends very much on storage conditions, particularly moisture, temperature, exposure to light and air.**

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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Clove Bud Essential Oil Organic

**BOTANICAL NAME/INCI:** Syzygium Aromaticum L.

**LOT NO:** BPCCBEOO12025

**EXPIRY DATE:** January 2030

**ORIGIN:** - Sri Lanka

### Properties

### Specifications

### Results

**Appearance:** Pale yellow to yellow clear liquid. Complies

**Odor:** Characteristic clove, fresh odor. Complies

**Solubility:** Soluble in alcohol and oils. Insoluble in water. Complies

**Specific Gravity:** 1.042 to 1.063 @ 25°C 1.0584

**Refractive Index:** 1.5280 to 1.5380 @ 25°C 1.5312

**Optical Rotation:** -1.5° to +0° @ 25°C -0.35°

**Eugenol:** 75 - 87 % 80.03 %

**B-caryophyllene:** 4-9 % 7.43 %

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