

#### MATERIAL SAFETY DATA SHEET

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Clove Bud (Indonesia) Essential Oil

**Botanical Name:** Syzygium aromaticum L.

Synonyms: Eugenia aromaticum, Caryophyllus aromaticus L., Eugenia caryophyllata

INCI Name: Syzygium aromaticum (clove) bud oil

CAS #: 8000-34-8 Country of Origin: Indonesia

**SECTION: 1.2 COMPANY IDENTIFICATION** 

Company: Craftiviti Sdn Bhd

Address: D-1-46, Block Dahlia, 10 Boulevard,

**Telephone No:** PJU6A, SPRINT Highway, 47400, Petaling Jaya.

03 7499 5553

**SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS** 

**Contents:** Eugenol, Eugenol Acetate, β-Caryophyllene

Composition: Eugenol 70 – 86 %

Eugenol Acetate: > 15 % β-Caryophyllene 5.0 – 12 %

**SECTION: 3. HAZARDS IDENTIFICATION** 

Eugenol

Medical Information: N/A

**SECTION: 4. FIRST AID MEASURES** 

**Eye Contact:** Contact with eyes can produce burning sensation. Irrigate with water immediately,

continue flushing eyes with water for 15 minutes. Seek medical attention if irritation

persists.

**Inhalation:** Remove to fresh air. Give oxygen if breathing is labored and seek medical advice.

Avoid casual breathing. Signs of over exposure are dizziness and nausea.

**Ingestion:** Rinse mouth; dilute with milk or water and consult a physician immediately. Do not

induce vomiting. Never-give anything by mouth if victim is unconscious, is rapidly-

losing or is Convulsing.

**Skin Contact:** Skin contact can produce irritation, or itching of the skin. Remove contaminated

clothing Wash with soap and plenty of water. Seek medical attention if irritation

persists.

**SECTION: 5. FIRE FIGHTING MEASURES** 

Flash Point: >100 deg. C.

Extinguishing media: Carbon Dioxide, dry chemical or foam. Closed containers may build up

pressure at elevated temperature

**Special Procedures:** Determine the need to evacuate or isolate the area according to your

local emergency plan.

Unusual Firefighting Hazards: None identified.

**Protective Equipment:** Self-contained breathing apparatus and protective clothing should be

worn when fighting fires involving essential oils or chemicals.

## MATERIAL SAFETY DATA SHEET

**Combustion Product:** Carbon Monoxide, Carbon Dioxide

SECTION: 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use of self-contained breathing apparatus is recommended for any major

chemical spill. Refer also to section 8.

**Safety Precautions:** Eliminate all ignition sources. Ventilate area. Determine the need to

Evacuate or isolate the area according to your local emergency plan.

Environmental Precautions: Keep away from drains, surface and ground water. Report spills to

appropriate Authorities if required.

**Methods For Cleaning Up:** Contain and collect with inert absorbent material and place in suitable

container for disposal. Comply with all federal, state, and local regulation. Wipe small spills with cloth. Clean with hot water and

detergent.

**SECTION: 7. HANDLING AND STORAGE** 

**Handling:** Avoid inhalation and contact with skin and eyes. Good personal hygiene

practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and

shoes should be cleaned before re-use.

Storage: Containers should be kept closed in order to minimize contamination.

Store in a cool, dry, well ventilated place protected from light.

Keep away from extreme heat and from freezing conditions and away

from all sources of ignition

Make sure the material does not come into contact with substances listed

as: "Materials to Avoid".

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Eyes Protection:** The use of safety glasses is recommended. If a material is to be handled

in a manner where splashing may occur, the use of splash goggles or

face shield is recommended

**Respiratory Protection:** In well- ventilated areas, respiratory protection is not normally required.

In confined, poorly ventilated areas the use of "NIOSH" approved respiratory protection normally required (use only if trained in proper

use and with acceptable oxygen level).

Protective Gloves:
Using chemical resistant gloves is recommended.
Protective Clothing:
Using chemical resistant clothing is recommended.

**Protective Equipment:** An eyewash fountain and / or safety shower should be available in the

work area. Acceptable industrial hygiene practices should be maintained. These precautions are for room temperature handling. Use at elevated

**Note:** These precautions are for room temperature handling. Use at elevated

temperature or aerosol / spray applications may require additional

precautions

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Yellow to brownish yellow clear liquid.

**Odor:** Characteristic clove odor.

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

**Specific Gravity:** 1.0380 – 1.0600 @ 20°C

MSDS: Clove Bud (Indonesia) Essential Oil

## MATERIAL SAFETY DATA SHEET

**Optical Rotation:** -2.0 − 0.0 @ 20°C **Refractive Index:** 1.528 − 1.537 @ 20°C

**Boiling Point:** 251 °C

**SECTION: 10. STABILITY AND REACTIVITY** 

Stability: Chemically stable. This material presents no significant reactivity

hazard.

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

Materials to Avoid:Strong oxidizing agents.Flammability:Combustible liquid.Hazardous Polymerization:Will not occur.Hazardous Combustion orNone known.

**Decomposition Products:** When heated to decomposition produces acid fumes and carbon

monoxide smoke.

SECTION: 11. TOXICOLOGICAL INFORMATION

**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** 

May be toxic to aquatic organism may cause long-term adverse effects in the aquatic environment.

Avoid any pollution of ground, surface or underground water.

**SECTION: 13. DISPOSAL CONSIDERATION** 

Dispose of in accordance with local, provincial and federal regulations. Check with disposal expert to ensure compliance.

**SECTION: 14. TRANSPORT INFORMATION** 

US DOT Shipping Description:Not regulatedIATA Shipping (Air):Not regulatedIMDG Shipping Description:Not regulated

**SECTION: 15. REGULATORY INFORMATION** 

WHMIS (Canada): N/A

MATERIAL SAFETY DATA SHEET			
SECTION: 16. OTHER INFORMATION			

# **CERTIFICATE OF ANALYSIS**

Product: Clove Bud (Indonesia) Essential Oil

**Lot No.:** 11038-A23

**Best Before:** June, 2015

Store in tight containers in a cool dry area away from direct sunlight.

<u>Properties</u>	<b>Specifications</b>	Results
Appearance:	Yellowish brown to dark brown.	Complies
Odor:	Characteristic clove odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble	Complies
	in water.	
Specific Gravity:	1.0380 – 1.0600 @ 25°C	1.056
Refractive Index:	1.528 – 1.537 @ 20°C	1.532
Eugenol Contents	70 – 86 %	83.46

#### **DISCLAIMER:**

Tel: (905) 362-1915

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Fax: (905) 362-1926 Page 5 of 5