



MATERIAL DATA SAFETY SHEET: Clove Bud Oil
Version: 1.0 Issued: 27th March 2018
earthYard Pty Ltd : ABN 66 603 706 832

HAZARDOUS ACCORDING TO WORKSAFE CRITERIA

SECTION 1 – MATERIAL & SUPPLY COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: CLOVE BUD OIL
CAS No.: 8000-34-8
EINECS: 284-638-7

1.2 Relevant identified uses of the substance or mixture

No further relevant information available Application of the substance / preparation: Perfumes & cosmetics

1.3 Manufacturer / Supplier Details

Supplier: EarthYard Pty Ltd
ABN: 66 603 706 832
Address: Unit 2, 1-3 Sommerville Circuit, Emu Plains, NSW Australia 2774
Telephone: 02 4735 8594

1.4 Information in case of emergency

Emergency Telephone: 02 4735 5379 (Office Hours 9.00am - 5.00pm Mon-Fri)
Email: enquiries@earthyard.com.au

SECTION 2 - HAZARD IDENTIFICATION

2.1 Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008
Health Hazards: SS 1, ED/I 2

2.2 Label Elements

Labeling according to Regulation (EC) No. 1272/2008

GHS Signal Word

WARNING



Hazard Statements

H317 May cause an allergic skin reaction
H318 Causes serious eye damage

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a Poisons Centre 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 continue rinsing
P501 Dispose of contents/the container in accordance with local government regulations



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- 2.3 Other hazards**
May cause be harmful if swallowed

SECTION 3 - PRODUCT COMPOSITION

3.1 Chemical Identification

Description: *Eugenia caryophyllata*
CAS No.: 8000-34-8
EINECS No.: 284-638-7

3.2 Components

| EU Allergen | CAS No. | EINECS | Regulation (EC) No 1272/2008 | % by weight |
|-------------|---------|--------|---|-------------|
| Eugenol | 97-53-0 | N/A | AT4, H302; ED/I 2, H319 SC/I 2, H315; SS 1, H317 | <88.0 % |

SECTION 4 - FIRST AID

4.1 Description of first aid measures

Eye Contact: Check for and remove any contact lenses. Immediately wash thoroughly with soft, clean water for 15 minutes while holding the eyelids open. Cold water may be used. If symptoms persist, seek medical attention.

Skin Contact: Remove any contaminated clothing and footwear. Clean before re-use. Wash affected areas thoroughly with soap and water for at least 15 minutes. In the event of an allergic reaction, seek medical attention

Inhalation: Remove individual from the exposure to fresh air. Contact a physician as necessary.

Ingestion: Not an expected route of exposure. If swallowed, DO NOT induce vomiting. Wash out mouth with water. Contact a physician or local poison centre immediately.

Contact Point: Poisons Information Centre Sydney Telephone: 131126

4.2 Most important symptoms and effects of substance, both acute and delayed

Eye contact: May cause eye irritation and corneal damage if not immediately rinsed out.
Skin Contact: Repeated contact may cause allergic dermatitis
Inhalation: Remove subject and place in a fresh air environment
Ingestion: Not an expected route of exposure

4.3 Indication of immediate medical attention and any special treatment required

No further relevant information available

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing agents: Carbon Dioxide; Dry Chemical; Water spray; Alcohol-resistant foam.
Unsuitable Extinguishing Media: Water jet (Use of a water jet may cause the fire to spread)

5.2 Special hazards arising from the substance or mixture

None known

5.3 Advice for firefighters



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Use self-contained breathing apparatus and wear protective clothing

Additional information

Collect contaminated firefighting water separately to prevent from entering waterways.
Contact Point: Dial 000 Emergency in case of fire [In Australia]
or Local Emergency Authority [Out of Australia].

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Ventilate area. Do not smoke.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Wipe up small spills with absorbent material such as paper cloth. Cover larger spills with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges. Keep away from ignition sources, do not smoke and avoid flames. Dispose of contaminated material in accordance with local government regulations

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes and avoid inhalation. Use glasses and protective gloves. Ensure there is adequate ventilation. Do not smoke. Take necessary action to avoid static discharge (which might cause ignition of organic vapors).

7.2 Conditions for storage

Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat.

Incompatible products None known based on information supplied.

7.3 Specific end use No further information available

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

No data available

8.2 Exposure Controls

Respiratory Protection Not generally required in well ventilated workplace



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Ventilation Protection Ensure adequate ventilation to keep exposure levels to a minimum. General exhaust is recommended

Eye Protection Use of goggles is recommended

Protective Gloves Use of chemical resistant (nitrile) gloves is recommended

Protective Clothing Use of chemical resistant clothing is recommended

Protective Equipment An eyewash station should be made available

8.3 Special Engineering Controls

None established.

8.4 Other Personal Protection

Consult the following Australian Standards for general advice regarding safety clothing and equipment: Respiratory Equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS 2919**, Industrial Eye Protection: **AS 1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS 2210**.

Note

These precautions are for room temperature handling. Use at elevated temperature applications may require additional precautions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

| | |
|--|--|
| Physical appearance at 20°C: | Clear mobile liquid |
| Colour: | Pale yellow to light brown |
| Odour: | Characteristic, spicy |
| pH when measurable: | Not available |
| Melting point & Freezing point: | N.A. |
| Initial boiling point: | N.A. |
| Flash point: | > 100 °C |
| Flammability (solid, gas): | N.A. |
| Upper & lower flammability or explosive limits: | N.A. |
| Vapour pressure: | N.A. |
| Vapour Density (air = 1): | N.A. |
| Relative density at 20°C: | 1.027 to 1.065 |
| Solubility in water (g/litre @ 20 °C): | Insoluble |
| Solubility in ethanol: | Soluble |
| Auto ignition T°C: | N.A. |
| Decomposition temperature: | N.A. |
| Viscosity: | N.A. |
| Explosive properties: | Lower & Upper Limits: N.A. Explosion hazards: No risk at room temperature, comply with current legislation requirements |
| Combustion Properties: | Does not contain any substance known as to ignite spontaneously. |

9.2 Other Data

| | |
|-----------------------------------|-------------------|
| Refractive index at 20 °C: | 1.527 to 1.528 |
| Optical rotation at 20°C: | -0.7 ° to -1.50 ° |



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Main Constituents:

Eugenol (65 to 88%)
b-caryophyllene (10 – 18%)

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

This material presents no significant reactivity hazard. In the presence of light and heat, there may be oxidation.

10.2 Stability

Chemically stable material under the recommended storage and handling conditions in Section 7

10.3 Possibility of hazardous reactions

When exposed to high temperatures, the substance may release hazardous decomposition products such as carbon monoxide, carbon dioxide, fumes, and nitrogen oxide

10.4 Conditions to avoid

Do not heat above 81°C. Do not expose containers to the sun.

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition products

No dangerous decomposition products expected by intended use

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Substance Acute toxicity

No data available.

Skin corrosion/irritation

May cause an allergic skin reaction; namely inflammation of the skin or the formation of erythema or oedema following exposure up to four hours. May cause an allergic reaction by skin contact. See Section 3.

Serious eye damage/irritation

Causes serious eye irritation. Prompt rinsing and removal of the substance will avoid damage.

Respiratory sensitisation

Exposure to vapors from this solvent exceeding the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. See EU allergen list in Section 3.

Germ cell mutagenicity

Data not available

Reproductive toxicity

Data not available

STOT-single exposure

Not specified

STOT-related exposure

Not specified

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on the likely routes of exposure

Skin/scalp contact.



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- 11.3 Symptoms related to the physical, chemical, and toxicological characteristics**
None known. Irritation of the eye if exposed.

SECTION 12 - ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity**
Very toxic to aquatic life with longlasting effects.
- 12.2 Persistence and degradability**
Data not available
- 12.3 Bio-accumulative potential**
Data not available
- 12.4 Mobility in soil**
Data not available
- 12.5 Other adverse effects**
Avoid exposure to marine environments and waterways

SECTION 13 - DISPOSAL CONSIDERATIONS

- 13.1 Waste Material**
Do not pour into drains or waterways. Waste management to be carried out without risk to water, air, soil, plants or animals. Place waste material into sealed containers and dispose of in accordance with current applicable laws and regulations.
- 13.2 Contaminated Packaging**
Recycle where possible and dispose of empty containers in accordance with current local government regulations.

SECTION 14 - TRANSPORT INFORMATION

- 14.1 UN Number**
Not regulated
- 14.2 UN Proper shipping name**
Not regulated
- 14.3 Transportation hazard classes**
Road and Rail Transport:
Not classified as Hazardous according to the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.
Marine Transport:
Class 9 Environmentally Hazardous according to the criteria of the ADG Code for transport by sea.
Air Transport:
Not classified by the criteria of the International Air Transport Association as (IATA) Dangerous Goods Regulations for transport by air.
- 14.4 Packing group**
III



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14.5 Environmental hazards



14.6 Poison Schedule
Not scheduled as a poison

14.7 Hazchem Code
Not regulated

SECTION 15 - REGULATORY INFORMATION

- 15.1 EU regulations**
This product has been classified and marked in accordance with the EU Directives/Ordinance on Hazardous Materials.
- 15.2 Poisons Schedule (Aust):** Listed as a Poison by the SUSDP.
All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS). This material is neither hazardous nor dangerous.

SECTION 16 - OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Native Oils Australia provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is thus, intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for the specific purpose. As the ordinary or otherwise use(s) of this product is outside the control of Native Oils Australia., 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. Native Oils Australia expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by Native Oils Australia as to the fitness for any use. The liability of Native Oils Australia is limited to the value of the goods and does not include any consequential loss. Native Oils Australia shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Native Oils Australia shall not be responsible for any damages resulting from use of or reliance upon this information. 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.

Manufacturers Statement:

Essential oils are complex, naturally derived chemicals. Often the constituents of the EOs may individually have known risks and hazards, and in some cases the constituents have not been studied, often because there have been no complaints. Used as directed and within the limits specified by the various agencies and associations that study these materials, essential oils are safe and useful ingredients in flavours, fragrances, cosmetics and therapeutic applications. Please refer to the guidelines of the industry in which the product will be offered to the public to abide by the safest known practices. Those



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organizations include: IFRA, IFEAT, AHPA, ISO Standards for Essential Oils, and publications by various government health organizations regarding the use of these materials.