

## SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifier

Product Name CLOVE ESSENTIAL OIL - BUD ABP  
Code Number EO100527 - EOCLOB  
Alternative Name  
REACH Reg No Not registered

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Concentrated material for manufacturing purposes only

#### 1.3 Details of the supplier of the safety data sheet

Pure Ingredients Ltd  
626A Rosebank Road, Avondale  
Auckland 1026  
New Zealand

Telephone Number +09 813 5619  
Email Address compliance@pureingredients.co.nz

**1.4 Emergency Tel No** 111 / NZ Poisons Centre **0800 POISON** (0800 764 766)  
Emergency Response: 0800 CHEMCALL / 0800 243 622 (24hr)

### Section 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

ATO 5\*(6.1E) Acute toxicity, oral, category 5  
AH 1\*(6.1E) Aspiration hazard, category 1  
SCI 2\*(6.3A) Skin corrosion/irritation, category 2  
SS 1A\*(6.5B) Skin sensitisation, category 1A  
EDI 2A\*(6.4A) Eye damage/irritation, category 2A

# SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

## 2.2 Label elements

GHS classification according to Regulation (EC) No 1272/2008

Hazard Pictograms



Signal Word                      Danger

Hazard Statements

- |      |  |
|------|--|
| H303 | May be harmful if swallowed                  |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation                       |
| H317 | May cause an allergic skin reaction          |
| H319 | Causes serious eye irritation                |

Precautionary Statements

- |                |  |
|----------------|--|
| P261           | Avoid breathing fumes.   |
| P264           | Wash hands thoroughly after handling   |
| P280           | Wear protective gloves and eye protection  |
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTRE.  |
| 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. |
| P331           | Do NOT induce vomiting.  |
| P333+P313      | If skin irritation or rash occurs: Get medical advice.   |
| P337+P313      | If eye irritation persists: Get medical attention.   |
| P362+P364      | Take off all contaminated clothing and wash it before reuse.   |
| P405           | Store locked up.   |

# SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

P501 Dispose of contents and container in accordance with local regulation.

## 2.3 Other Hazards

Contains Eugenol which may produce an allergic reaction

No further information available at this time

## Section 3. Composition / information on ingredients

Any percentage values listed here for hazardous components are for illustrative purposes only

### 3.1 Substances

Description	CLOVE BUD OIL
EC/EINECS	284-638-7
CAS Number	84961-50-2
USCAS Number	8000-34-8

### Hazardous components

ID Numbers	Chemical Name, Classification and Hazards	Conc (%)
CAS 97-53-0 EINECS 202-589-1 REACH	Eugenol SS 1; EDI 2A H317, H319	81.5100
CAS 93-28-7 EINECS 202-235-6 REACH	Eugenyl acetate ATO 4(1670); SCI 3 H302, H316	8.8700
CAS 87-44-5 EINECS 201-746-1 REACH	Caryophyllene AH 1; SS 1B H304, H317	4.5500
CAS 140-67-0 EINECS 205-427-8 REACH	Estragole (Methyl chavicol) FL 4; ATO 4(1230); SCI 3; SS 1B; CAR 2; MUT 2 H227, H302, H316, H317, H341, H351	0.1600
CAS 119-36-8 EINECS 204-317-7 REACH	Methyl salicylate ATO 4(890); SCI 3; EDI 2A; EH A3 H302, H316, H319, H402	0.0900

Refer to section 16 for the wording of listed classification and hazard statement codes

# SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

## Section 4. First Aid measures

Take phrases in sections 2 into account

### 4.1 Description of first aid measures

After inhalation

No known adverse effects. If fumes or combustion products are inhaled, remove to fresh uncontaminated air, lay patient on back until breathing returns to normal.

After skin contact

Irritating, may cause an allergic reaction. Remove contaminated clothing and wash thoroughly with soap and water. Seek medical advice if irritation persists or there are any signs of tissue damage.

After eye contact

Highly irritating to the eyes. Flush eyes with plenty of water for 15 minutes including under eyelid. Seek medical advice if irritation persists. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

After ingestion

May be harmful and fatal if enters airways. Do NOT induce vomiting. Position to avoid aspiration should vomiting occur. Wash mouth with plenty of water and obtain medical advice immediately. Never give anything by the mouth to an unconscious patient.

### 4.2 Most important symptoms and effects, both acute and delayed

Take phrases in sections 2 and 11 into account. No further information available at this time.

### 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

## Section 5. Fire-fighting measures

### 5.1 Extinguishing Media

Carbon dioxide, foam or dry powder.  
DO NOT USE A DIRECT WATER JET.

### 5.2 Special hazards arising from the substance or mixture

May produce Carbon dioxide and unidentified organic compounds.

### 5.3 Advice for fire-fighters

Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise skin exposure. Avoid inhalation of vapours. Keep containers cool with water spray. Do not use direct water jet on burning material. Do not allow spillage of fire to enter drains or watercourses.

HazChem Code N/A

# SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Avoid inhalation, skin and eye contact. Ensure proper ventilation. Evacuate all unnecessary personnel. If possible contain the spill.

### 6.2 Environmental precautions

Do not discharge directly into drains or the soil. Keep away from surface and ground water.

### 6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbant material such as earth or vemiculite; transfer used material to a suitable waste container and dispose in accordance with regulations. If large quantities of this material enter the waterways, contact the EPA or your local Waste Management Group.

### 6.4 Reference to other sections

Refer to information in Sections 7, 8 and 13

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes. Wear protective clothing and use safety glasses. Keep in original container or an alternative made from a compatible material.

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

Store in tightly sealed original containers away from ignition sources and in a cool place. Avoid contact with incompatible materials that support combustion, such as strong oxidising agents.

### 7.3 Specific end use(s)

No further information available

## Section 8. Exposure controls / personal protection

### 8.1 Control Parameters

No exposure standards have been established for this material by Work safe Australia. However as a matter of course avoid repeated or prolonged contact with the skin. Keep out of eyes. Do not ingest. Use with good ventilation, do not breathe vapour. Sensitive individuals may develop an allergic response.

### 8.2 Exposure controls

#### Engineering controls

Natural ventilation should be sufficient, however where vapours of mists are generated the use of a grounded mechanical exhaust ventilation system is recommended.

# SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

## Individual protection measures

Refer to Section 5 for specific fire/chemical personal protective equipment advice.  
Always wash routinely before breaks, meals and at the end of the work period.

### Eye/face protection

Use splash-proof safety glasses and face shield where splashing is possible.

### Hand protection

Wear chemically resistant disposable gloves.

### Other skin protection

Wear overalls. Depending on conditions in the workplace, additional body protection should be considered. Always wash routinely before breaks, meals and at the end of the work period.

### Respiratory protection

Not generally required. Use inhalation protection in poorly ventilated areas

### Thermal hazards

No information

### Environmental exposure controls

Emissions from ventilation and process equipment should be checked to ensure compliance with environmental protection legislation.

### National Exposure Standards

No exposure standards have been established for this material by Worksafe Australia.

### Biological Limit Values

No biological limit allocated.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

FLASH POINT (°C)	115
APPEARANCE	Mobile liquid
COLOUR	Pale yellow to amber-brown
ODOUR	Strong, spicy, sweet, warm, clove-like
ODOUR THRESHOLD	Not available
pH @20 DEG C	Not available
MELTING/FREEZING POINT	-7.5 deg C

# SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

INITIAL BOILING POINT AND RANGE	248 deg C
EVAPORATION RATE	Not available
FLAMMABILITY (SOLID/GAS)	Not available
UPPER/LOWER FLAMMABILITY LIMITS	Not available
VAPOUR PRESSURE	0.04 hPa at 25 deg C
VAPOUR DENSITY	Not available
SPECIFIC GRAVITY @ 20 deg C	1.03 to 1.063
SOLUBILITIES	Water: 1.154g/L at 20 deg C
PARTITION COEFF N-OCTANAL/WATER	1.38 at 30 deg C
AUTO-IGNITION TEMPERATURE	380 deg C
DECOMPOSITION TEMPERATURE	Not available
VISCOSITY @ 20 DEG C	Not available
EXPLOSIVE PROPERTIES	Non-explosive
OXIDISING PROPERTIES	None

## 9.2 Other information

No further information available

## Section 10. Stability and reactivity

### 10.1 Reactivity

Not determined

### 10.2 Chemical Stability

Stable under the recommended storage conditions (see section 7).

### 10.3 Possibility of hazardous reactions

No hazardous reactions if stored under suitable storage conditions.

### 10.4 Conditions to avoid

Avoid exposure to heat, sources of ignition, and open flame. Avoid exposure to air.

### 10.5 Incompatible materials

Keep away from oxidising agents and from highly alkaline or acidic material.

# SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

## 10.6 Hazardous decomposition products

During combustion may form carbon monoxide, carbon dioxide and unidentified organic compounds.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

May be harmful if swallowed

LD50 oral (rat) – 2650mg/kg

LD50 dermal (rabbit) - >5,000mg/kg

#### Skin corrosion / irritation

Causes skin irritation.

#### Serious eye damage / irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

No data

#### Carcinogenicity

No data

#### Reproductive toxicity

No data

#### STO-single exposure

No data

#### STO-repeated exposure

No data

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Information on likely routes of exposure

No data

#### Symptoms related to the physical, chemical and toxicological characteristics

No data



# SAFETY DATA SHEET

GHS: According to 2015/830/EU

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*Version 3 Revised 20/10/2020*

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data

Interactive effects

No data

Other information

No data

## Section 12. Ecological information

### 12.1 Toxicity

Toxic to aquatic life. Avoid contaminating waterways.

LC50 fish (Danio rerio) – 13 mg/L 96h

EC50 aquatic invertebrates (Daphnia magna) – 1.13mg/L 48h

EC50 aquatic algae (Desmodesmus subspicatus) – 24mg/L 72h

### 12.2 Persistence and degradability

No data

### 12.3 Bioaccumulative potential

No data

### 12.4 Mobility in soil

Prevent contamination of soil, ground and surface water.

### 12.5 Results of PBT and vPvB assessment

No data

### 12.6 Other adverse effects

See sections 6, 7, 13 and 15.

## Section 13. Disposal considerations

Please refer to the information in section 8 (Exposure controls and personal protection)

### 13.1 Waste treatment methods

Dispose in accordance with the law and local regulations. Treat as trade effluent.

## Section 14. Transport information

14.1 UN number Not Regulated

14.2 UN proper shipping name Not Restricted

# SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number: EO100527*

*Version 3 Revised 20/10/2020*

14.3 Transport hazard class(es)

14.4 Packing group

Tunnel Code

14.5 Environmental Hazards

No relevant information available

14.6 Special precautions for user

No relevant information available

HazChem Code N/A

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

## Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison Schedule: S6 POISON

HS Tariff Code: 3301.29.00

HSNO Approval Number: HSR002578

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

## Section 16. Other information

Full list of precautionary phrases

P261	Avoid breathing fumes.
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves and eye protection
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE.
P301+P312	IF SWALLOWED: Call a POISON CENTRE if you feel unwell.
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.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice.

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GHS: According to 2015/830/EU

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*Version 3 Revised 20/10/2020*

P337+P313	If eye irritation persists: Get medical attention.
P351	Rinse cautiously with water for several minutes.
P362+P364	Take off all contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local regulation.

Wording of any hazard classes listed in section 3

FL 4	Flammable liquid, category 4
ATO 4	Acute toxicity, oral, category 4
AH 1	Aspiration hazard, category 1
SCI 3	Skin corrosion/irritation, category 3
SS 1	Skin sensitisation, category 1
SS 1B	Skin sensitisation, category 1B
EDI 2A	Eye damage/irritation, category 2A
MUT 2	Germ cell mutagenicity, category 2
CAR 2	Carcinogenicity, category 2
EH A3	Aquatic hazard, acute, category 3

Wording of any hazard statements listed in section 3

H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H402	Harmful to aquatic life

References and further information

KEY:

N/A = Not applicable

Version 1: GHS format, BV 23/02/2017

Version 2: System update, BV 20/10/2020

Version 3: Minor changes, BV 20/10/2020

Authorised by: JJ 20/10/2020

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd 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 intended only as a guide to the appropriate handling of this material.