

## 01. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY UNDERTAKING

## 1.1 Product Identifier

1.1 Product Identifier	Clove Bud Oil.				
Biological Definition	Eugenia Caryophyllus Bud Oil is an essential oil steam-distilled from the dried flower buds of the Clove, <i>Syzygium aromaticum</i> , syn. <i>Eugenia caryophyllus</i> , Myrtaceae. It contains eugenol (82-87% including about 10% acetyleneugenol), caryophyllene				
INCI Name	Eugenia Caroyphyllus Bud Oil.				
Synonyms Trade Names	-				
CAS Number	84961-50-2	EC Number	284-638-7	EINECS No.	284-638-7

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

No additional data available.

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

Calmer Solutions Limited - Hadresham, Woolborough Lane, Outwood, Surrey, England RH1 5QR - Reg No 4992013

## 1.4 Emergency Telephone Number

In case of a medical emergency following exposure to a chemical, call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 (UK Only)

## 02. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

The full text for all hazard statements displayed in section 16.

## Classification (EC 1272 / 2008)

Physical and Chemical: This substance does not present a physical hazard. Refer to therecommendations regarding the other products present on the site. Human health: Eye irritation, Category 2 (Eye Irrit. 2, H319). Skin sensitisation, Category 1 (Skin Sens. 1, H317). Environment: This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

GHS07

None

None

None

None



Signal Word

Warning

Contains

Eugenol,

## Hazard Statements

H317-May cause an allergic skin reaction

H319-Causes serious eye irritation

## Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash... thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 IF ON SKIN:  
P352 Wash with plenty of soap and water.  
P305 IF IN EYES:  
P351 Rinse cautiously with water for several minutes.  
P338 Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 If skin irritation or rash occurs:  
P313 Get medical advice/attention.

## Supplementary Precautionary Statements

None Identified

## 2.3 Other Hazards

PBT or PvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	May be harmful if swallowed.

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

<b>60 - 87 % Eugenol</b>	CAS No: 97-53-0	EC No: 202-589-1
Classification (EC 1272/2008): Acute Tox. 4 - H302, Carc. 2 - H351, Muta. 2 - H341		
<b>0 - 5 % Eugenyl Acetate</b>	CAS No: 93-28-7	EC No: 202-235-6
Classification (EC 1272/2008): GHS07, Warning, Acute Tox. 4 - H302		
<b>0 - 0.1 % Methyl Eugenol</b>	CAS No: 93-15-2	EC No: 202-223-0
Classification (EC 1272/2008): Acute Tox. 4 - H302, Muta. 2 - H341, Carc. 2 - H351, Aquatic Chronic 2 - H411		

## 04. FIRST AID MEASURES

### 4.1 Description of first aid measures

41 Inhalation:	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
41 Ingestion:	Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label.
41 Eye:	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation continues.
41 Skin:	Remove contaminated clothing. Wash skin with soap and plenty of water. Get medical attention if any

discomfort continues. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

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

No additional data available.

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

No additional data available.

### 05. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing Media

Carbon dioxide, Chemical Powder or Foam. Do not use a direct stream of water.

#### 5.2 Special hazards arising from the product

In case of fire Carbon Monoxide and other unidentified organic compounds may be released.

#### 5.3 Advice for firefighters

In case of insufficient ventilation use suitable respiratory equipment. Wear chemical protective clothing.

### 06. ACCIDENTAL RELEASE MEASURES

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

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Do not discharge into drains, water courses or onto the ground.

#### 6.2 Environmental Precautions

Absorb with inert, non-combustible, inorganic absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite). Sweep up and remove to an approved disposal container. Clean preferably with a detergent, do not use solvents.

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

No additional data available.

#### 6.4 Reference to other sections

7.1 Precautions for safe handling

### 07. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Requirements relating to storage premises apply to all facilities where the substance is handled. Individuals with a history of skin sensitisation should not, under any circumstance, handle this substance. Always wash hands after handling. Remove and wash contaminated clothing before re-using. Prevent access by unauthorised personnel. No smoking, eating or drinking in areas where the substance is used. For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations. Avoid skin and eye contact with this substance.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Always keep in packaging made of an identical material to the original.

#### 7.3 Specific end use(s)

No additional data available.

### 08. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control Parameters

## 8.1 Control Parameters

No additional data available.

## 8.2 Exposure controls

### Protective Equipment

Goggles



Gloves



None

None

None

Process Conditions:

Provide eyewash station.

Engineering Measures:

Provide adequate ventilation. Observe Occupational Exposure Limits and m

Respiratory Equipment:

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand Protection:

Use suitable protective gloves if risk of skin contact.

Eye Protection:

If risk of splashing, wear safety goggles or face shield.

Other Protection:

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures:

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using, do not eat, drink or smoke.

Personal Protection:

Use personal protection according to Directive 89/686/EEC.

Skin Protection

Wear apron or protective clothing in case of splashes.

Environmental

Exposure Controls:

Avoid discharging into drainage water. Only eliminate by authorised companies.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:

Clear liquid yellow to light brown.

Colour:

Yellow to light brown.

Flash Point:

PE > 100

Odour:

Characteristic – spicy, eugenolic.

Relative Density:

1.027 – 1.065 @ 20°C

Refractive:

1.527 – 1.538 @ 20°C

Melting Point:

No additional data available.

Boiling:

No additional data available.

Vapour:

No additional data available.

Solubility:

Insoluble.

Auto Ignition:

No additional data available.

### 9.2 Other Information

No additional data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal temperature conditions and recommended use.

### 10.2 Chemical Stability

Stable under normal temperature conditions and recommended use.

### 10.3 Possible hazardous reactions

No additional data available.

### 10.4 Conditions to avoid

No additional data available.

### 10.5 Incompatible materials

No additional data available.

### 10.6 Hazardous Decomposition Products

The thermal decomposition may release/form: carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

## 11. TOXOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute Toxicity:

EUGENYL METHYL ETHER (METHYL EUGENOL) (CAS: 93-15-2) Oral route : LD50 = 810 mg/kg  
EUGENYL ACETATE (CAS: 93-28-7) Oral route : LD50 = 1670 mg/kg  
HYDROCARBONS Oral route : LD50 = 800 mg/kg  
Dermal route : LD50 = 1300 mg/kg  
EUGENOL (CAS: 97-53-0) Oral route : LD50 = 2300 mg/kg

Respiratory or skin sensitisation:

No additional data available.

Skin corrosion/irritation:

May cause an allergic reaction by skin contact.

Serious Eye damage/irritation:

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Germ Cell Mutagenicity:

No additional data available.

Carcinogenicity:

Monograph(s) from the IARC (International Agency for Research on Cancer): CAS 97-53-0, IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

Reproductive toxicity:

No additional data available.

STOT Single exposure:

No additional data available.

STOT Repeated exposure:

No additional data available.

Photo-toxicity:

No additional data available.

Aspiration hazard:

No additional data available.

Other Information:

No additional data available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No additional data available.

### 12.2 Persistence Degradability

No additional data available.

### 12.3 Bioaccumulation Potential

No additional data available.

### 12.4 Mobility in soil

No additional data available.

### 12.5 Results of PBT and vPvB Assessment

Not applicable.

### 12.6 Other adverse effects

No additional data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC. Do not pour into drains or waterways. Waste: Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment. Soiled packaging: Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

## 14. TRANSPORT INFORMATION

### 14.1 UN number

Road:	Not regulated.
Sea:	Not regulated.
Air:	Not regulated.

### 14.2 UN Proper shipping name

None.

### 14.3 Transport hazard class(es)

Not regulated.

None.

None.

None.



### 14.4 Packing group

Not required.

### 14.5 Environmental Hazards

None.

None.

None.

None.

## 14.6 Special precautions for users

None.

## 14.7 Transport in bulk according to Annex II of MARLPOL73/78 and the IBC Code

No additional data available.

# 15. REGULATORY INFORMATION

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

Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG(108). EU Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## 15.2 Chemical safety assessment

No additional information available.

# 16. OTHER INFORMATION

Hazard or precaution	H302 Harmful if swallowed. H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.
Other Information::	None
Revision Date:	4/1/2019
Reason:	New SDS
Revision Number:	2

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