

**01. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY UNDERTAKING****1.1 Product Identifier**

1.1 Product Identifier	Clove Leaf Oil.				
Biological Definition	Eugenia Caroyphyllus Leaf Oil is an essential oil steam-distilled from the leaves of the Clove, Eugenia caryophyllus, Myrtaceae.				
INCI Name	Eugenia Caroyphyllus Leaf Oil.				
Synonyms Trade Names	-				
CAS Number	8015-97-2 8000-34-8 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

Industry Use.

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: Hazards Not classified. Human health: Skin Sensitisation cat. 1 - H317, Aspiration Toxicity cat 1 - H304, Serious eye damage/ eye irritation cat 2 – H319 Environment: Toxic to aquatic life.

GHS07

GHS08

None

None

None



Signal Word

Danger

Contains

Caryophyllene, Eugenol,

Hazard Statements

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary Statements

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.
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.

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

84 - 88 % Eugenol

CAS No: 97-53-0 EC No: 202-589-1

Classification (EC 1272/2008): Acute Tox. 4 - H302, Carc. 2 - H351, Muta. 2 - H341

9 - 12 % Caryophyllene

CAS No: 87-44-5 EC No: 201-746-1

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304

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:	Rinse mouth with water. DO NOT induce vomiting. Get medical attention.
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.

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

Treat symptomatically.

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

Ensure adequate ventilation, especially in confined areas. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground. Collect spillage.

6.3 Methods and material for containment and clearing up

Absorb with inert, non-combustible, inorganic absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite). Sweep up and remove to an approved disposal container.

6.4 Reference to other sections

See section 12.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including and incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

No additional data available.

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

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:	Ensure adequate ventilation, especially in confined areas.
Respiratory Equipment:	Respiratory protection may be required, if ventilation is poor.
Hand Protection:	Chemical resistant gloves (PVC)
Eye Protection:	Avoid contact with the eyes. Wear approved safety goggles.
Other Protection:	No additional data available.
Hygiene Measures:	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.
Personal Protection:	Avoid inhalation and contact with skin and eyes.
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 pale yellow to dark yellow liquid.
Colour:	Pale yellow to dark yellow.
Flash Point:	100
Odour:	Characteristic.
Relative Density:	1.033 - 1.054 @ 20°C
Refractive:	1.528 - 1.538 @ 20°C
Melting Point:	No additional data available.
Boiling:	No additional data available.
Vapour:	0.002
Solubility:	No additional data available.
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

None under normal use and conditions.

10.4 Conditions to avoid

Avoid extremes of temperature and direct sunlight.

10.5 Incompatible materials

No additional data available.

10.6 Hazardous Decomposition Products

None under normal use conditions.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxological effects

Acute Toxicity:	Product does not present an acute toxicity hazard based on known or supplied information. The following values are calculated based on chapter 3.1 of the GHS document: ATEmix (oral) 2,809.00 Oral LD50 Dermal LD50 EUGENOL 1930mg/kg (Rat)
Respiratory or skin sensitisation:	No additional data available.
Skin corrosion/irritation:	No additional data available.
Serious Eye damage/irritation:	No additional data available.
Germ Cell Mutagenicity:	No additional data available.
Carcinogenicity:	No additional data available.
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

14 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

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

Disposal should be in accordance with applicable regional, national and local laws and regulations. Improper disposal or reuse of the container may be dangerous and illegal.

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 MARPOL73/78 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. H316 - Causes mild skin irritation. H401 - Toxic to aquatic life. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H303 - May be harmful if swallowed.
Other Information:::	None
Revision Date:	3/15/2022
Reason:	New SDS
Revision Number:	2

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for his own particular use.