

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

1.1 Product Identifier	Litsea Cubeba Oil				
Biological Definition	Litsea Cubeba Fruit Oil is the volatile oil obtained from the berries of the Litsea cubeba, Lauraceae				
INCI Name	Litsea Cubeba Fruit Oil				
Synonyms Trade Names	Litsea Cubeba ext. May Chang Oil				
CAS Number	68855-99-2 90063-59-5	EC Number	290-018-7	EINECS No.	290-018-7

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

Industrial use only. Only for professional 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 is displayed in section 16. Human health: May be fatal if swallowed and enters airways. The product is irritating to eyes and skin. Environment: The product contains a substance which is toxic to aquatic organisms and

Classification (EC 1272 / 2008)

Physical and Chemical Hazards: Not classified. Human health: Sens. 1 - H317; Asp. Tox. 1 - H304 Environment:

Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Aquatic Chronic 2 - H411

GHS08

GHS07

GHS09

None

None

**Signal Word**

Danger

Contains

Geraniol, Neral, (S)-p-Mentha-1,8-diene, (+)-Citronellal, Pinene, Cineole, 1,Alpha-(-)-pinene, Geraniol, Nerol, Beta-(+)-Citronellol,

Hazard Statements

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.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician.
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.
P331 Do NOT induce vomiting.

Supplementary Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash... thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P321 Specific treatment (see... on this label).
P332 If skin irritation occurs:
P313 Get medical advice/attention.
P333 If skin irritation or rash occurs:
P337 If eye irritation persists:
P362 Take off contaminated clothing and wash before reuse.
Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container to...

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	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

24.8 - 43 % Geranial

CAS No: 141-27-5 EC No: 205-476-5

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Skin Sens. 1 - H317

20.2 - 35 % Neral

CAS No: 106-26-3 EC No: 205-476-5

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Skin Sens. 1 - H317

2.3 - 18 % (S)-p-Mentha-1,8-diene

CAS No: 5989-54-8 EC No: 227-815-6

Classification (EC 1272/2008): M Factor (Acute) = 1, M Factor (Chronic) = 1, Flam. Liq. 3 - H226, Skin Irrit. 2 - nH315, Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

0.01 - 7 % Citronellal

CAS No: 106-23-0 EC No: 203-376-6

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Chronic 2 - H411

0.2 - 2 % Sabinene

CAS No: 3387-41-5 EC No: 222-212-4

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Acute Tox. 2 - H330

0.74 - 1.8 % 7-methyl-3-methylenoocta-1,6-diene

CAS No: 123-35-3 EC No: 204-622-5

Classification (EC 1272/2008): M Factor (Acute) = 1, M Factor (Chronic) = 1, Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Asp. Tox. 1 - H304

0.01 - 2.2 % Verbenol

CAS No: 473-67-6 EC No: 207-470-8

Classification (EC 1272/2008): M Factor (Acute) = Skin Irrit. 2 - H315

0.31 - 1.7 % 1,8 Cineole

CAS No: 470-82-6 EC No: 207-431-5

Classification (EC 1272/2008): Skin Irrit. 3 (316) (EFA), Acute Tox. 5 (H503)(EFA), Flam. Liq. 3 - H226 (EFA)

1 - 5 % 1,Alpha-(-)-Pinene

CAS No: 7785-26-4 EC No: 232-077-3

Classification (EC 1272/2008): M Factor (Chronic) = 1, Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317, STOT SE 3 - H335, Aquatic Chronic 1 - H410

0.01 - 2.9 % Geranoil

CAS No: 106-24-1 EC No: 203-377-1

Classification (EC 1272/2008): SCI 2-EDI, 1-SS 1,;H315 - H317H319

0.01 - 5 % 6-Methyl-5-hepten-2-one

CAS No: 110-93-0 EC No: 203-816-7

Classification (EC 1272/2008): Flam. Liq. 3 - H226

0.01 - 3.3 % Linalool

CAS No: 78-70-6 EC No: 201-134-4

Classification (EC 1272/2008): Acute Tox. 5 _ H303, Skin Irrit. 2 H315, Aquatic Acute 3 - H402

0.01 - 3 % Beta Caryophyllene

CAS No: 87-44-5

EC No: 201-746-1

Classification (EC 1272/2008): Asp. Toxic 1 - H304

0.18 - 1.2 % Nerol

CAS No: 106-25-2

EC No: 203-378-7

Classification (EC 1272/2008): Skin Irrit 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317

0.01 - 1.5 % Beta-(+)-Citronellol

CAS No: 1117-61-9

EC No: 214-250-5

Classification (EC 1272/2008): Skin Irrit 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317

04. FIRST AID MEASURES

4.1 Description of first aid measures

41 Inhalation:	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
41 Ingestion:	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately.
41 Eye:	Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.
41 Skin:	Remove contaminated clothing immediately and wash skin with soap and water.

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 of the working area, evacuate personnel to safe area, wear suitable protective equipment. smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin and eyes. Avoid inhalation of vapours.

6.2 Environmental Precautions

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

6.3 Methods and material for containment and clearing up

Cover with inert, inorganic, non-combustible material (e.g. dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with local authority guidelines.

6.4 Reference to other sections

For waste disposal, see Section 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breathe vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only in well ventilated areas.

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

7-methyl-3-methylenoocta-1,6-diene (CAS: 123-35-3)DNEL

Workers - Dermal; Long term systemic effects: 0.83 mg/kg

Workers - Inhalation; Long term systemic effects: 5.83 mg/m³

General population - Dermal; Long term systemic effects: 0.42 mg/kg

General population - Inhalation; Long term systemic effects: 1.25 mg/m³PNEC - STP; 0.2 mg/l- Soil; 1.015 mg/kg

Fresh water; 0.00028 mg/l

Marine water; 0.0008 mg/l

Sediment (Freshwater); 5.022 mg/kg- Sediment (Marine water); 0.502 mg/kg1, 8 cineole (CAS: 470-82-6)DNEL

Workers - Dermal; Long term systemic effects: 2 mg/kg

General population - Oral; Long term systemic effects: 600 mg/kg

General population - Dermal; Long term systemic effects: 1 mg/kg

General population - Inhalation; Long term systemic effects: 1.74 mg/m³PNEC - STP; 10 mg/l- Soil; 0.2 mg/kg-

Intermittent release; 0.57 mg/l

Fresh water; 0.057 mg/l-

Marine water; 0.0057 mg/l

Sediment (Freshwater); 0.06732 mg/kg- Sediment (Marine water); 0.00673 mg/kg

8.2 Exposure controls

Protective Equipment

Goggles

Gloves

None

None

None



Process Conditions:	Provide eyewash station.
Engineering Measures:	Provide adequate ventilation.
Respiratory Equipment:	Generally unnecessary in a well ventilated area. If ventilation is insufficient, respiratory protection must be worn.
Hand Protection:	To protect hands from chemicals, gloves should comply with European Standard EN374.
Eye Protection:	Personal protective equipment for eye and face protection should comply with
Other Protection:	European Standard EN166.
Hygiene Measures:	Wear appropriate clothing to prevent any possibility of skin contact.
Personal Protection:	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Skin Protection	No additional data available.
Environmental Exposure Controls:	Wear apron or protective clothing in case of splashes.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Mobile Liquid, pale yellow to yellow.
Colour:	Pale yellow to yellow.
Flash Point:	REACH dossier information. 68.3±1°C CC (Closed cup).
Odour:	Characteristic.
Relative Density:	0.882 - 0.905 @ 25°C
Refractive:	1.475 - 1.490 @ 20°C
Melting Point:	REACH dossier information. Litsea Cubeba Oil is a mobile liquid at 20°C and
Boiling:	REACH dossier information. 83 ± 10°C @ 1013 hPa
Vapour:	REACH dossier information. 60.69 Pa @ 25°C
Solubility:	REACH dossier information. The range of water solubilities of the known co
Auto Ignition:	No additional data available.

9.2 Other Information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed / indicated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possible hazardous reactions

None known.

10.4 Conditions to avoid

Keep away from heat, sparks and open flame.

10.5 Incompatible materials

Strong acids. Strong alkalis. Strong oxidising agents.

10.6 Hazardous Decomposition Products

Prolonged or excessive heat and/or exposure to air may cause decomposition or oxidation of the material.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity: No additional data available.

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

Acute toxicity - fish LL_{50} , 96 hour: 4.2 mg/l, *Onchorhynchus mykiss* (Rainbow trout) Acute toxicity– aquatic invertebrates EL_{50} , 48 hours: 4.2 mg/l, *Daphnia magna*

12.2 Persistence Degradability

Expected to be readily biodegradable.

12.3 Bioaccumulation Potential

Partition coefficient REACH dossier information. The log Kow range of Litsea Cubeba oil constituents was found to be 2.06 -

12.4 Mobility in soil

No additional data available.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other adverse effects

No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General information Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

14.1 UN number

Road:	3082
Sea:	3082
Air:	3082

14.2 UN Proper shipping name

ENVIRONMENTAL

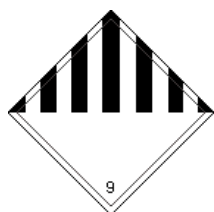
14.3 Transport hazard class(es)

ADR/RID/ADN Class 9ADR/RID Classification Code M6

Cl. 9_140

ENVIRONMENTAL

ENVIRONMENTAL



14.4 Packing group

14.4 Packing group

14.5 Environmental Hazards

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14.6 Special precautions for users

14.6 Special precautions for user

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

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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	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects.
Other Information::	None
Revision Date:	4/1/2019
Reason:	New SDS
Revision Number:	2

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