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MATERIAL SAFETY DATA SHEET

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	Litsea Cubeba Oil				
Biological Definition	Litsea Cubeba Fruit Oil is the volatile oil obtained from the berries of the <i>Litsea cubeba</i> , <i>Lauraceae</i> .				
INCI Name	Litsea Cubeba Fruit Oil				
Synonyms & Trade Names	Litsea Cubeba ext. May Chang Oil				
CAS-No	690063-59-5	EC No.	290-018-7	EINECS No.	290-018-7

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

Suitable for cosmetic, flavour, fragrance and professional use only.

1.3 Details of the supplier of the safety data sheet

1.4 Emergency Tel. No.

02. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

Classification (EC 1272/2008)

Physical hazards:

- Not classified.

Health hazards:

- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Skin Sens. 1B - H317
- Eye Irrit. 2 - H319

Environmental hazards:

- Aquatic Chronic 2 - H411

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS08 GHS07 GHS09

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Signal Word	Danger
Contains	<ul style="list-style-type: none"> - d-Limonene - alpha-Pinene - beta-Caryophyllene
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	
P261 - Avoid breathing vapour/spray. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301/P310 - IF SWALLOWED - Immediately call a POISON CENTER/doctor. 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/attention. P337/P313 - If eye irritation persists: Get medical advice/attention. P391 - Collect spillage. P501 - Dispose of contents/container in accordance with national regulations.	
Supplementary Precautionary Statements	
P264 - Wash contaminated skin thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P362/P364 - Take off contaminated clothing and wash it before reuse.	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	The substance is not PBT / vPvB
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	
≤ 78.0% Citral CAS: 5392-40-5 Classification (EC 1272/2008) <ul style="list-style-type: none"> - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317 - Eye Irrit. 2 - H319 	

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≤ 18.0% d-Limonene

CAS: 5989-27-5

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

≤ 7.0% Citronellal

CAS: 106-23-0

Classification (EC 1272/2008)

- Skin Irrit. 2 - H315
- Skin Sens. 1B - H317
- Eye Irrit. 2 - H319

1.0% – 5.0% alpha-Pinene

CAS: 80-56-8

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Acute Tox. 4 - H302
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

≤ 3.3% Linalool

CAS: 78-70-6

Classification (EC 1272/2008)

- Skin Irrit. 2 - H315
- Skin Sens. 1B - H317
- Eye Irrit. 2 - H319

≤ 3.0% beta-Caryophyllene

CAS: 87-44-5

Classification (EC 1272/2008)

- Asp. Tox. 1 - H304
- Skin Sens. 1B - H317
- Aquatic Chronic 4 - H413

≤ 2.9% Geraniol

CAS:106-24-1

Classification (EC 1272/2008)

- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Eye Dam. 1 - H318

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<p>≤ 5.0% 6-Methyl-5-hepten-2-one CAS:110-93-0 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Flam. Liq. 3 - H226 - Eye Irrit. 2 - H319
<p>0.2 - 2.0% Sabinene CAS: 3387-41-5 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Flam. Liq. 3 - H226 - Asp. Tox. 1 - H304 - Skin Irrit. 2 - H315 - Eye Irrit. 2 - H319 - STOT SE 3 - H335
<p>0.7 - 1.8% Myrcene CAS-No: 123-35-3 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Flam. Liq. 3 - H226 - Asp. Tox. 1 - H304 - Skin Irrit. 2 - H315 - Eye Irrit. 2 - H319 - Aquatic Acute 1 - H400 - Aquatic Chronic 1 - H410
<p>0.3 - 1.7% 1,8- Cineole CAS: 470-82-6 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Flam. Liq. 3 - H226 - Skin Sens. 1B - H317
<p>≤ 1.5% Citronellol CAS-No: 106-22-9 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Skin Irrit. 2 - H315 - Skin Sens. 1B - H317 - Eye Irrit. 2 - H319
<p>0.1 - 1.2% Nerol CAS-No: 106-25-2 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317 - Eye Irrit. 2 - H319

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove from exposure area to fresh air. Get medical advice/attention.
Ingestion	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention.

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Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.
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	
Extinguishing media:	<ul style="list-style-type: none"> - Carbon dioxide (CO₂), - Foam, - Dry chemical powder.
Unsuitable extinguishing media:	<ul style="list-style-type: none"> - Do not use water, as this may scatter and spread fire.
5.2 Special hazards arising from the product	
<p>A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. Containers close to fire should be removed or cooled with water. Thermal decomposition or combustion products may include the following substances:</p> <ul style="list-style-type: none"> - Carbon dioxide (CO₂), Carbon monoxide (CO), other toxic gases. 	
5.3 Advice for firefighters	
<p>Avoid breathing fire gases or vapours. Wear self-contained respiratory equipment and appropriate protective clothing at all times. Containers in close proximity to the fire should be removed to a safe distance and the exterior of the container should be cooled with water.</p>	

06. ACCIDENTAL RELEASE MEASURES


6.1 Personal precautions, protective equipment and emergency procedures	
<p>Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling.</p>	
6.2 Environmental Precautions	
Do not discharge into drains, water courses or onto the ground.	
6.3 Methods and material for containment and cleaning up.	
<p>Absorb with liquid binding material e.g. sand, diatomaceous earth. Collect in closed and suitable containers for disposal. Prevent any material from entering drains or waterways. Wash spill site after removal with a detergent.</p>	
6.4 Reference to other sections	
See sections 4, 7, 8 & 13.	

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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 any 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	
	
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 European Standard EN166.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	No additional data available.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	Avoid discharging into drainage water.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Mobile Liquid, pale yellow to dark yellow.
Colour	Pale yellow to dark yellow.
Odour	Characteristic; Lemon Like, Fresh sweet odour.
Relative Density	Approx. 0.891 @ 20°C
Flash Point (°C)	REACH dossier information. 68.3±1 (Closed cup).

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Refractive Index	Approx. 1.482 @ 20°C
Melting Point (°C)	REACH dossier information. Litsea Cubeba Oil is a mobile liquid at 20°C and a mobile liquid after 2 days at -20°C. Therefore, it was concluded that the melting point of Litsea Cubeba Oil is <-20°C.
Boiling Point (°C)	REACH dossier information. 83 ± 10°C @ 1013 hPa
Vapour Pressure	REACH dossier information. 60.69 Pa @ 25°C
Solubility in Water @20°C	REACH dossier information. The range of water solubilities of the known constituents of Litsea Cubeba oil was found to be 0.5 - 4364 mg/l at 25°C
Auto-ignition temperature (°C)	No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possible hazardous reactions

Not expected under normal conditions of use.

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

Not expected under normal temperature conditions and recommended use. Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	Not classified.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Skin - May cause an allergic skin reaction.
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.

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STOT-repeated exposure	No additional data available.
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
<p>Toxic to aquatic life with long lasting effects.</p> <p>REACH dossier information:</p> <p>Acute toxicity - fish LL₅₀, 96 hour: 4.2 mg/l, Onchorhynchus mykiss (Rainbow trout)</p> <p>Acute toxicity - aquatic invertebrates EL50, 48 hours: 4.2 mg/l, Daphnia magna.</p>
12.2 Persistence & degradability
Expected to be readily biodegradable.
12.3 Bioaccumulation Potential
<p>Partition coefficient</p> <p>REACH dossier information. The log Kow range of Litsea Cubeba oil constituents was found to be 2.06 - 6.3.</p> <p>16.90% of the constituents has a log Kow >=4</p>
12.4 Mobility in soil
No additional data available.
12.5 Results of PBT and vPvB Assessment
The substance is not PBT / vPvB.
12.6 Other adverse effects
No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Dispose of in compliance with all local and national regulations. Always collect material that has spilled or leaked.

14. TRANSPORT INFORMATION

14.1 UN number	
UN No. Road	3082
UN No. SEA	3082
UN No. AIR	3082
14.2 UN proper shipping name	
ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.	
14.3 Transport hazard class(es)	

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ADR/RID

ADR/RID– Class 9

ADR Classification Code – M6

Special provisions – 274 335 375 601

Limited quantities – 5L

Expected quantities – E1

Emergency Action Code – •3Z

IMDG

IMDG – Class 9

Special Provisions – 274 335 375 601

Limited quantities – 5L

Expected quantities – E1

IMDG EMS – F-A, S-F

Stowage and Handling – Category A

ICAO/IATA

ICAO/IATA– Class 9

IATA proper shipping name - ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

Expected quantities – E1

Transport Labels



14.4 Packing group

ADR/RID Packing group III

IMDG Packing group III

ICAO Packing group III

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6 Special precautions for user

See sections 6 – 8.

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

No additional data available.

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15. REGULATORY INFORMATION

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

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). 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) (as amended).
CHIP for everyone HSG228.

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard Statements in Full	H226 - Flammable liquid and vapour. H302 - Harmful if swallowed. 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. H413 -May cause long lasting harmful effects to aquatic life.
Revision Date	28/02/2020
Rev No	5

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 himself as to the suitability of such information for his own particular use.