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 *Litsea cubeba, Lauraceae.*				
INCI Name	Litsea Cubeba Fruit Oil				
Synonyms & Trade Names	-				
CAS-No	68855-99-2 90063-59-5	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

The Soap Kitchen Limited
Unit 8, Caddsdown Industrial Park
Clovelly Road
Bideford
North Devon
EX39 3DX

1.4 Emergency Tel. No.	01237420872

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

No additional data

Classification (EC 1272/2008)

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

Signal Word	Danger
Contains	- 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
Adverse effects on human health	No additional data

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

≤ 78.0% Citral
CAS: 5392-40-5
Classification (EC 1272/2008);
- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Eye Irrit. 2 - H319

≤ 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

≤ 5.0% 6-Methyl-5-hepten-2-one
CAS: 110-93-0
Classification (EC 1272/2008);
- Flam. Liq. 3 - H226
- Eye Irrit. 2 - H319

0.2 - 2.0% Sabinene
CAS: 3387-41-5
Classification (EC 1272/2008);
- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- STOT SE 3 - H335

0.7 - 1.8% Myrcene
CAS: 123-35-3
Classification (EC 1272/2008);
- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

0.3 - 1.7% 1,8- Cineole
CAS: 470-82-6
Classification (EC 1272/2008);
- Flam. Liq. 3 - H226
- Skin Sens. 1B - H317

≤ 1.5% Citronellol
CAS: 106-22-9
Classification (EC 1272/2008)
- Skin Irrit. 2 - H315
- Skin Sens. 1B - H317
- Eye Irrit. 2 - H319

0.1 - 1.2% Nerol
CAS: 106-25-2
Classification (EC 1272/2008);
- 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 to fresh air immediately. Remain in a position which is comfortable for breathing. Seek medical attention.
Ingestion	Do NOT induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth with clean water and provide fresh air. Seek medical attention.

Skin Contact	Remove contaminated clothing immediately and wash before reuse. Wash skin with soap and water. If discomfort occurs/continues, seek medical attention.
Eye Contact	Rinses eyes thoroughly, including under eyelids with clean water for a minimum of fifteen minutes. If safe to do so, remove contact lenses and continue to rinse. Seek medical attention.

4.2	**Most important symptoms and effects, both acute and delayed**
	No additional data
4.3	**Indication of any immediate medical attention and special treatment needed**
	Treat symptomatically.

05. FIRE-FIGHTING MEASURES

5.1	**Extinguishing Media**
	Carbon dioxide (CO_2), Foam, Dry chemical powder. Do NOT use water.
5.2	**Special hazards arising from the product**
	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: Carbon dioxide (CO_2), Carbon monoxide (CO), other toxic gases.
5.3	**Advice for firefighters**
	Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water. Use protective equipment appropriate for surrounding materials. Wear self-contained respiratory equipment and appropriate protective clothing at all times.

06. ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**
	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.
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.**
	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.
6.4	**Reference to other sections**
	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. Use only in well ventilated areas. Adhere to all good health, safety and hygiene practices. If handling large/heavy packages or drums ensure the use of suitable mechanical equipment. Do not eat, drink or smoke whilst handling this product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Protect from heat. Freezing and light including sunlight. Keep all containers tightly sealed when not in use.

7.3 Specific end use(s)

No additional data

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional data

8.2 Exposure controls

Protective Equipment

Process Conditions	Provide eyewash station.
Engineering Measures	Install sufficient ventilation across all areas.
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 hygiene practices are always recommended, especially when handling chemicals, oils or any other similar type of material.
Personal Protection	No additional data
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
Colour	Pale Yellow – Dark Yellow
Odour	Characteristic; Lemony, Fresh, Sweet
Relative Density	~0.891 @ 20°C
Flash Point (°C)	REACH dossier information. 68.3±1 (Closed cup).

Refractive Index	~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°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

9.2 Other information
No additional data

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
Carcinogenicity	No additional data
Reproductive toxicity	No additional data
STOT-single exposure	No additional data
STOT-repeated exposure	No additional data

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

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life with long lasting effects.
REACH dossier information:
Acute toxicity - fish LL_{50}, 96 hours: 4.2 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates EL50, 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 - 6.3. 16.90% of the constituents has a log Kow >=4

12.4 Mobility in soil

No additional data

12.5 Results of PBT and vPvB Assessment

The substance is not PBT / vPvB.

12.6 Other adverse effects

No additional data

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not allow entry into drains or waterways. 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. Empty container completely. Keep label(s) on container. Dispose of via a certified disposal contractor.

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)

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

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). Guidance CHIP for everyone HSG228.
15.2	**Chemical safety assessment**
	No additional data

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.
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