

## **Certificate of Analysis**

PRODUCT DETAILS						
Product Name		LITSEA CUBEBA OIL				
Product Code		OELITSCUBE				
INCI Name		Litsea cubeba fruit oil				
Batch Number		4435111				
Best Before End		June 2024				
Manufacturing Process		Obtained by steam distaillation from the fruits of litsea cubeba, Lauraceae and optionally by refined distillation.				
Identification		EINEC No: 943-438-6		Cas No: 68855-99-2		
		Fema No: 3846				
PHYSICAL AND CHEMIC	CAL CHAP	ACTERISTIC				
		SPECIFICATION RANGES		RESULTS		
Appearanc		Liquid		Conforms		
€olour		Pale yellow to yellow		Conforms		
Odour		Characteristic		Conforms		
Relative Density @20°c		0.878 - 0.890		0.8845		
Refractive Index @ 20°c		1.4800 - 1.4900		1.4818		
Optical Rotation @ 20°c		+3 to +12		10.06		
MAIN CONSTITUENTS	}					
Constituent Range	Result	Constituent Range	Result	Constituent Range	Result	
Geranial 27-43		Neral 22-35	29.40%	Limonene 2.3-18	13.90%	
Citronellal 0.01-7	0.20%	Sabinene 0.2-2	1.40%	Myrcene 0.74-1.8	1.80%	
Verbenol 0.01-2.2	0.90%	1,8 Cineole 0.31-1.7	1.20%	1, alpha-(-)-Pinene 1-5	1.60%	
Geraniol 0.01-2.9	1.10%	Citronellol 0.01-1.5	0.20%	(-)-linalool 0.01-3.3	1.30%	
Beta Caryophyllene 0.01-3	1.20%	Nerol 0.18-1.2	0.50%			
STORAGE						
Storage		Store in tightly closed cont	ainer with minim	ium headspace in a cool, da	ark and dry place	

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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR Corporation make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.



## **CMR STATEMENT**

IDENTIFICATION				
Product:	Litsea Cubeba Oil			
Cas No:	68855-99-2			
EINECS No:	943-438-6			
STATEMENT				

We, Madar Corporation Limited, from information received from our supplier, hereby declare that the material listed above contains the following CMR substances or traces of CMR substances (Carcinogenic, Mutagenic, Toxic for reproduction) graded 1A, 1B and 2 listed below in accordance with the 1272/2008/E Regulation:

Components Safrole	% Total
Safrole	0.1

This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.



# SAFETY DATA SHEET LITSEA CUBEBA OIL

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name LITSEA CUBEBA OIL

Chemical name Litsea Cubeba Essential Oil

Product number OELITSCUBE

REACH registration number 01-2120118332-70-XXXX

**EC number** 943-438-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Fragrance use

1.3. Details of the supplier of the safety data sheet

Supplier MADAR Corporation Limited

19-20 Sandleheath Industrial Estate

Fordingbridge Hampshire SP6 1PA

Tel. +44 1425 655555 (Opening Hours Mon - Fri 9.00am - 5.00pm)

e-mail sales@madarcorporation.co.uk

#### 1.4. Emergency telephone number

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** May be fatal if swallowed and enters airways. The product is irritating to eyes and skin.

**Environmental** The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

2.2. Label elements

**EC number** 943-438-6

#### LITSEA CUBEBA OIL

#### Hazard pictograms







#### Signal word

#### Danger

#### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways. 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+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.

#### **Contains**

Geranial, Neral, (S)-p-mentha-1,8-diene, (+)-Citronellal, 7-methyl-3-methyleneocta-1,6-diene, 1, 8 cineole, 1,alpha-(-)-Pinene, Geraniol, (-)-linalool, Beta Caryophyllene, Nerol, β-(+)-

Citronellol

## Supplementary precautionary

statements

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

#### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

Geranial >=24.84 to <=43.0

CAS number: 141-27-5 EC number: 205-476-5

#### Classification

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

#### LITSEA CUBEBA OIL

Neral >=20.24 to <=35.0

CAS number: 106-26-3 EC number: 203-379-2

Classification

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

(S)-p-mentha-1,8-diene >=2.3 to <=18.0

Classification

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

Sabinene >=0.2 to <=2.0

CAS number: 3387-41-5 EC number: 222-212-4

Classification

Acute Tox. 4 - H302

(+)-Citronellal >=0.01 to <=7.0

CAS number: 2385-77-5 EC number: 219-194-5

Classification

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

7-methyl-3-methyleneocta-1,6-diene >=0.74 to <=1.8

CAS number: 123-35-3 EC number: 204-622-5 M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

## LITSEA CUBEBA OIL

 Verbenol
 >=0.01 to <=2.2</th>

 CAS number: 473-67-6
 EC number: 207-470-8

Classification

Skin Irrit. 2 - H315

1, 8 cineole >=0.31 to <=1.7

CAS number: 470-82-6 EC number: 207-431-5

Classification

Flam. Liq. 3 - H226 Skin Sens. 1B - H317

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

CAS number: 7785-26-4 EC number: 232-077-3

M factor (Chronic) = 1

Classification

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

Geraniol >=0.01 to <=2.9

CAS number: 106-24-1 EC number: 203-377-1

Classification

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

6-Methyl-5-hepten-2-one >=0.01 to <=5.0

CAS number: 110-93-0 EC number: 203-816-7

Classification

Flam. Liq. 3 - H226

(-)-linalool >=0.01 to <=3.3

CAS number: 126-91-0 EC number: 204-811-2

Classification

Skin Corr. 1 - H314 Eye Dam. 1 - H318 Skin Sens. 1B - H317

#### LITSEA CUBEBA OIL

Beta Caryophyllene >=0.01 to <=3.0

CAS number: 87-44-5 EC number: 201-746-1

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Nerol >=0.18 to <=1.2

CAS number: 106-25-2 EC number: 203-378-7

Classification

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

β-(+)-Citronellol >=0.01 to <=1.5

CAS number: 1117-61-9 EC number: 214-250-5

Classification

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

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention

immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact 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.

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

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

Notes for the doctor Treat symptomatically.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Use as appropriate carbon dixoide (CO2), dry chemical or foam

#### LITSEA CUBEBA OIL

Unsuitable extinguishing

media

Do not use water, if avoidable.

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO2),

smoke, soot.

5.3. Advice for firefighters

Protective actions during

Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled

with water.

Special protective equipment

for firefighters

firefighting

Use protective equipment appropriate for surrounding materials.

#### SECTION 6: Accidental release measures

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

suitable protective equipment. No smoking, sparks, flames or other sources of ignition near

spillage. Avoid contact with skin and eyes. Avoid inhalation of vapours.

#### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning 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

**Reference to other sections** For waste disposal, see Section 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** 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

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

#### 7.3. Specific end use(s)

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

## 7-methyl-3-methyleneocta-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/m³

#### LITSEA CUBEBA OIL

**PNEC** - STP; 0.2 mg/l

- Soil; 1.015 mg/kg

Fresh water; 0.00028 mg/lmarine water; 0.0008 mg/l

Sediment (Freshwater); 5.022 mg/kgSediment (Marinewater); 0.502 mg/kg

## 1, 8 cineole (CAS: 470-82-6)

**DNEL** Workers - Inhalation; Long term systemic effects: 7.05 mg/m<sup>3</sup>

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

General population - Inhalation; Long term systemic effects: 1.74 mg/m³ General population - Dermal; Long term systemic effects: 1 bw/day, mg/kg General population - Oral; Long term systemic effects: 600 mg/kg, bw/day

PNEC - Fresh water; Short term 5.7 mg/l

- Intermittent release, Fresh water; 0.57 mg/l

- marine water; Short term 5.7 mg/l

- STP; Short term 10 mg/l

Sediment (Freshwater); Short term 1.425 mg/kgSediment (Marinewater); Short term 0.142 mg/kg

- Soil; Short term 0.25 mg/kg

#### 1,alpha-(-)-Pinene (CAS: 7785-26-4)

**DNEL** Workers - Inhalation; Long term systemic effects: 5.69 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 0.8 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 1 mg/m³

General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day

PNEC - Fresh water; Short term 0.303 mg/l

- Fresh water, Intermittent release; 3.03 mg/l

- marine water; Short term 0.03 mg/l

- STP; Short term 6.6 mg/l

Sediment (Freshwater); Short term 78.3 mg/kgSediment (Marinewater); Short term 7.83 mg/kg

- Soil; Short term 15.8 mg/kg

#### Geraniol (CAS: 106-24-1)

**DNEL** Workers - Inhalation; Long term systemic effects: 161.6 mg/m³

Workers - Dermal; Long term systemic effects: 12.5 mg/kg, bw/day
General population - Inhalation; Long term systemic effects: 47.8 mg/m³
General population - Dermal; Long term systemic effects: 7.5 bw/day, mg/kg
General population - Oral; Long term systemic effects: 13.75 bw/day, mg/kg

PNEC - Fresh water; Short term 0.011 mg/l

- Intermittent release, Fresh water; 0.108 mg/l

- marine water; Short term 0.001 mg/l

- STP; Short term 0.7 mg/l

Sediment (Freshwater); Short term 0.115 mg/kgSediment (Marinewater); Short term 0.011 mg/kg

- Soil; Short term 0.017 mg/kg

#### 8.2. Exposure controls

#### LITSEA CUBEBA OIL

#### Protective equipment







Appropriate engineering

controls

Provide eyewash station

**Eye/face protection** Personal protective equipment for eye and face protection should comply with European

Standard EN166.

**Hand protection**To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body

protection

Wear protective clothing.

Hygiene measures Good personal hygiene procedures should be implemented.

**Respiratory protection** Generally unnecessary in a well ventilated area.

If ventilation is insufficient, respiratory protection must be worn.

**Environmental exposure** 

controls

Avoid discharging into drains.

#### SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Pale yellow to yellow

Odour Characteristic.

Melting point 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.

Initial boiling point and range REACH dossier information. 83 ± 10°c°C @ 1013 hPa

Flash point REACH dossier information. 68.3±1°c°C Closed cup.

Vapour pressure REACH dossier information. 60.69 Pa @ 25°C

**Relative density** 0.878 - 0.890 @ 20°C

Solubility(ies) 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

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  $\geq$ =4

Optical rotation +3 to +12 @ 20°C

9.2. Other information

**Refractive index** 1.4800 - 1.4900 @ 20°C

**Hydrocarbon Content** 

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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

10.2. Chemical stability

#### LITSEA CUBEBA OIL

**Stability** Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

None known.

10.4. Conditions to avoid

**Conditions to avoid** Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

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

the material.

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

products

5,000.0

**Species** Rat

**ATE oral (mg/kg)** 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD50

mg/kg)

4,800.0

**Species** Rabbit

ATE dermal (mg/kg) 4,800.0

Skin corrosion/irritation

described in the Official Journal of European Communities No. L257 (16 September 1983) and classification is also warranted according to the criteria outlined in Annex VI of 67/548/EEC (DSD). However, according to the current criteria for skin irritation/corrosion as outlined in Annex I of 1272/2008/EC (CLP) the substance does not need to be classified

anymore for skin irritation/corrosion.

#### SECTION 12: Ecological information

#### 12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LL<sub>50</sub>, 96 hour: 4.2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EL50, 48 hours: 4.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 25 mg/l, Freshwater algae

NOEC, 72 hours: 10 mg/l, Freshwater algae

Acute toxicity - NOEC, 28 days: 14.2 mg/l, Activated sludge

microorganisms

#### 12.2. Persistence and degradability

## LITSEA CUBEBA OIL

**Biodegradation** Expected to be readily biodegradable.

12.3. Bioaccumulative 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

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

## LITSEA CUBEBA OIL

## **SECTION 14: Transport information**

#### 14.1. UN number

UN No. (ADR/RID) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (ADN) 3082

## 14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

## Transport labels



## 14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

**EmS** F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

#### LITSEA CUBEBA OIL

Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

#### SECTION 15: Regulatory information

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

**EU legislation** 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

#### SECTION 16: Other information

Revision date 21/07/2020

Revision 5

Supersedes date 06/12/2016

SDS number 4702

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye 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.

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## **Product Specification**

PRODUCT DETAILS					
Product Name	LITSEA CUBEBA OIL				
Product Code	OELITSCUBE				
INCI Name	Litsea cubeba fruit oil				
Country of Origin	China				
Tariff Number	33012941				
REACH Registration	01-2120118332-70-XXXX				
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural.				
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.				
Kosher Certified	Yes				
Halal Certified	We hereby delcare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.				
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modifed organisms.				
Manufacturing Process	Obtained by steam distaillation from the fruits of litsea cubeba, Lauraceae and optionally by refined distillation.				
Identification	EINEC No: 943-438-6	Cas No: 68855-99-2			
	Fema No: 3846				
<b>PHYSICAL AND CHEMICA</b>	L CHARACTERISTIC				
Appearance	Liquid				
Colour	Pale yellow to yellow				
Odour	Characteristic				
Relative Density @20°c	0.878 - 0.890				
Refractive Index @ 20°c	1.4800 - 1.4900				
Initial Boiling Point and range	83 ± 10°c @ 1013 hPa				
Flash Point	68.3 ± 1°c (closed cup)				
Vapour Pressure @ 25°c	6.69 Pa				
Optical Rotation @ 20°c	+3 to +12				
FRAGRANCE ALLERGENS					
Citral (5392-40-5) <=78%	Citronellol (1117-61-9) <=1.5%	Geraniol (106-24-1) <=2.9%			
Limonene (5989-27-5) <=18.0%	Linalool (78-70-6) <=3.3				
FOOD ALLERGENS					
NONE					
IFRA					
Citral (5392-40-5) <= <b>78</b> %	Citronellol (1117-61-9) <=1.5%	Geraniol (106-24-1) <= <b>2.9</b> %			
STORAGE AND SHELF LIFE	, ,				
torage Store in tightly closed container with minimum headspace in a cool, dark and dry place.					
Shelf Life	24 months unopened and stored as above.				
24 HIGHER: This information relates only to the specific material designated and may not be valid for such materials used in combination with any other materials or in any process. Such information is to the best of the					

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## **Vegan Statement**

IDENTIFICATION				
Product:	Litsea Cubeba Oil			
Cas No:	68855-99-2			
EINECS No:	943-438-6			
STATEMENT				

We, MADAR Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan or vegetarian diet.

It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.

This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.