

# Safety Data Sheet

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

### **1.1** Product Identifier

Product Name		Litsea Cubeba Oil				
Biological Definition		L	Litsea Cubeba Fruit Oil is the volatile oil obtained from the berries of			
		t	the Litsea cubeba, Lauraceae			
INCI	Name	L	Litsea Cubeba Fruit Oil			
Sync	onyms & Trade Nam	nes L	Litsea Cubeba ext. May Chang Oil			
CAS-No		68855-99-2 / 90063-59-5	EC No.	290-018-7	EINECS No.	290-018-7
1.2	2 Relative identified uses of the substance or mixture and uses advised against					
	Industrial use only. Only for professional use.					
1.3	.3 Details of the supplier of the safety data sheet					
	Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1					
1.4	Emergency Tel.	No.	604-540-87	700 (Monday-F	riday 8:30 am-4:3	0 pm)

# **02. HAZARDS IDENTIFICATION**

02.11	02. HAZARDS IDENTIFICATION			
2.1	Classification of the substance or m	ixture		
	The full text for all hazard statements is displayed in section 16.			
	<u>Human health</u>			
	May be fatal if swallowed and enters air	ways. The product is irritating to eyes and skin.		
	Environment			
	The product contains a substance which	is toxic to aquatic organisms and which may cause long-term		
	adverse effects in the aquatic environm	ent.		
	Hydrocarbon Content 19%			
Class	sification (EC 1272/2008)			
	Physical and Chemical Hazards: Not clas	ssified.		
	Human health: Skin Irri	t. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Asp. Tox. 1 - H304		
	Environment: Aquatic	Chronic 2 - H411		
2.2	Label Elements			
Labe	el in accordance with (EC) No 1272/2008			
-	GHS08 GHS07 GHS09			
Signa	al Word	Danger		
Cont	tains	Geranial, Neral, (S)-p-mentha-1,8-diene, (+)-Citronellal, Sabinene, 1,		

		8 cineole, 1,alpha-(-)-Pinene, Geraniol, Nerol, ß-(+)-Citronellol	
Hazard Stateme	ents		
H304	May be fatal if swallowed	and enters airways.	
H315	Causes skin irritation.		
H317	May cause an allergic ski	n reaction.	
H319	Causes serious eye irritat	ion.	
H411	Toxic to aquatic life with	long lasting effects.	
Precautionary S	itatements		
P273 Avo	id release to the environment		
P280 Wea	ar protective gloves/protective	e clothing/eye protection/face protection.	
		ely call a POISON CENTER/doctor.	
	52 IF ON SKIN: Wash with plen	•	
		iously with water for several minutes. Remove	
	enses, if present and easy to de	o. Continue rinsing.	
	NOT induce vomiting.		
	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).			
	3 If skin irritation occurs: Get		
		urs: 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.			
	Hazards	accordance with national regulations.	
	cording to Annex XIII	No additional data available.	
Adverse physio-chemical properties No additional data available.			
Adverse effects	on human health	No additional data available.	
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3. COMPOSITI	ON/INFORMATION ON ING	GREDIENTS	
3.2 Mixtures	5		

3.2	Mixtures	
	24.84 - 43.0% Geranial CAS-No:	141-27-5 EC No: 205-476-5
	Classification (EC 1272/2008); S	Skin Irrit. 2 - H315, Skin Sens. 1 - H317
	20.24 - 35.0% Neral CAS-No:	106-26-3 EC No: 203-379-2
	Classification (EC 1272/2008); S	Skin Irrit. 2 - H315, Skin Sens. 1 - H317
	2.3 - 18.0% (S)-p-mentha-1,8-die	ene CAS-No: 5989-54-8 EC No: 227-815-6
	F	M factor (Acute) = 1, M factor (Chronic) = 1 Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317 Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410
	0.01 - 7.0% (+)-Citronellal	CAS-No: 2385-77-5 EC No: 219-194-5
	Classification (EC 1272/2008); Ski	in Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317

Classification (EC 1272/2008);	
	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319
	Skin Sens. 1 - H317, STOT SE 3 - H335, Aquatic Acute 1 - H400
).74 - 1.8% 7-methyl-3-methyl	eneocta-1,6-diene CAS-No: 123-35-3 EC No: 204-622-5
Classification (EC 1272/2008);	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);	Skin Irrit. 2 - H315
	SKIII IIIII. Z - 11313
0.31 - 1.7% 1, 8 cineole	CAS-No:470-82-6 EC No: 207-431-5
Classification (EC 1272/2008);	Flam. Liq. 3 - H226, Skin Sens. 1B - H317
10 50% 1 clubs ( ) Dinana	
1.0 - 5.0% 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
.01 - 2.9% Geraniol	CAS-No:106-24-1 EC No: 203-377-1
Classification (EC 1272/2008);	Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Skin Sens. 1 - H317
0.01- 5.0% 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:126-91-0 EC No: 204-811-2
Classification (EC 1272/2008);	Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, STOT SE 3 - H335
0.01 - 3.0% Beta Caryophyllen	e CAS-No: 87-44-5 EC No: 201-746-1
Classification (EC 1272/2008);	Asp. Tox. 1 - H304
0.18 - 1.2% Nerol CAS-No	o: 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% ß-(+)-Citronellol	CAS-No: 1117-61-9 EC No: 214-250-5

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### 04. 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		
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: Use as appropriate: Carbon dioxide (CO <sub>2</sub> ), Foam, dry chemical powder.
	Unsuitable extinguishing media: Do not use water, if avoidable.
5.2	Special hazards arising from the product
	In case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), smoke, soot.
5.3	Advice for firefighters
5.3	Advice for firefighters Special Fire Fighting Procedures
5.3	
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5.3	Special Fire Fighting Procedures Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water.
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Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear 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

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

### 6.3 Methods and material for containment and 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

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 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		
	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/m <sup>3</sup>	
		General population - Dermal; Long term systemic effects: 0.42 mg/kg	
		General population - Inhalation; Long term systemic effects: 1.25 mg/m <sup>3</sup>	
	PNEC	- STP; 0.2 mg/l	
		- Soil; 1.015 mg/kg	
		- Fresh water; 0.00028 mg/l	
		- Marine water; 0.0008 mg/l	
		<ul> <li>Sediment (Freshwater); 5.022 mg/kg</li> </ul>	
		- Sediment (Marine water); 0.502 mg/kg	
	1, 8 cineole (C	AS: 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/m <sup>3</sup>	
	PNEC	- 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	
		<ul> <li>Sediment (Freshwater); 0.06732 mg/kg</li> </ul>	
		- Sediment (Marine water); 0.00673 mg/kg	

#### 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	Avoid discharging into drainage water.
Controls	

### 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.
Odour	Characteristic.
Relative Density	0.882 - 0.905 @ 25°C
Flash Point (°C)	REACH dossier information. 68.3±1°c°C CC (Closed cup).
Refractive Index	1.475 - 1.490 @ 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	No additional data available.
temperature (°C)	
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.
<u>11. TC</u>	OXOLOGICAL INFORMATION

## **11.1** Information on toxicological effects

Acute Toxicity

No additional data available.

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Skin corrosion / irritation	No additional data available.
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	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.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

#### **12. ECOLOGICAL INFORMATION**

### 12.1 Toxicity

Acute toxicity- fish LL₅o, 96 hour: 4.2 mg/l, Onchorhynchus mykiss (Rainbow trout)Acute toxicity- aquatic invertebratesEL50, 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 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		
	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/ADN Class	9	
	ADR/RID Classification Code	e M6	

	ADR Label	9
	IMDG Class	9
	ICAO Class/Division	9
	AND Class	9
		5
	a	
14.4	Packing group	
	ADR/RID/ADN Packing group	III
	IMDG Packing group	III
	ICAO Packing group	III
14.5	Environmental hazards	
	Environmentally Hazardous	Substance/Marine Pollutant
	^	
	AV X	
	$\langle \Psi_{\gamma} \rangle$	
	$\checkmark$	
14.6	Special precautions for use	er
	EMS	F-A-S-F
	ADR Transport Category	3
	Emergency Action Code	•3Z
	ADR/RID Hazard ID Number	90
	Tunnel Restriction Code	(E)
14.7	Transport in bulk accordin	g to Annex II of MARPOL73/78 and the IBC code
	No additional data available.	
<u>15. R</u>	GULATORY INFORMATION	
15.1	Safety, health and enviror	mental 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 pac	kaging 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, Ev	valuation, Authorisation and Restriction of Chemicals (REACH) (as amended).
	Guidance	
	CHIP for everyone HSG228.	
15.2	Chemical safety assessme	nt
	No additional information avai	lable.
10 0	THER INFORMATION	

Hazard and/or Precautionary	H226 Flammable liquid and vapour.
Statements in Full	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	September 1, 2016
Reason for revision	Updated SDS from supplier.
Rev No/Repl, SDS Generated	02

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.