

# **MATERIAL SAFETY DATA SHEET**

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

1.1	Proc	duct Identifier					
Product Name			May Chang Litsea Cubeba) Essential Oil				
Biological Definition			Litsea Cubeba Fruit Oil is the volatile oil obtained from the berries of the Litsea cubeba, Lauraceae				
INCI N	INCI Name		Illicium Verum Fruit Oil.				
Synonyms & Trade Names		Litsea Cubeba Fruit Oil					
CAS-No 68855-99-2 / 90		063-59-5	EC No.	290-018-7	EINECS No.	290-018-7	
1.2 Relative identified uses of the substance or mixture and uses advised against							
	No additional data available.						
1.3	Details of the supplier of the safety data sheet						
	NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR						
1.4	Em	ergency Tel. No.		+44(0)16	03 610883		

#### 02. HAZARDS 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 and Chemical Hazards: Not classified.

Human Health:. Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Asp. Tox. 1 - H304

Environment: Aquatic Chronic 2 - H411

# 2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS08 GHS07 GSH09







Signal Word	Danger
Contains	Geranial, Neral, (S)-p-mentha-1,8-diene, (+)-Citronellal, Sabinene, 1, 8 cineole, 1,alpha-(-)-Pinene, Geraniol, Nerol, ß- (+)-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+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

## **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 eve 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	
PBT or vPvB 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

03. COMPOSITION/INFORMATION ON INGREDIENTS	
3.2 Mixtures	
24.84 - 43.0% Geranial CAS-No: 141-27-5 EC No: 205-47	6-5
Classification (EC 1272/2008);Skin Irrit. 2 - H315, Skin Se	ns. 1 - H317
<b>20.24 - 35.0% Neral</b> CAS-No: 106-26-3 EC No: 203-379-2	
Classification (EC 1272/2008); Skin Irrit. 2 - H315, Skin Sei	ns. 1 - H317
<b>2.3 - 18.0% (S)-p-mentha-1,8-diene</b> CAS-No: 5989-54-8 E	C No: 227-815-6
Classification (EC 1272/2008);M factor (Acute) = 1, M factor	or (Chronic) = 1
Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H3	17
Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	
<b>0.01 - 7.0% (+)-Citronellal</b> CAS-No: 2385-77-5 EC No: 21	9-194-5
Classification (EC 1272/2008); Skin Irrit. 2 - H315, Eye Irri	t. 2 - H319, Skin Sens. 1B - H317
<b>0.2 - 2.0% Sabinene</b> CAS-No: 3387-41-5EC No: 222-212-4	4
Classification (EC 1272/2009): M factor (Acuta) $= 1$	

Classification (EC 1272/2008);M factor (Acute) = 1

Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319

Skin Sens. 1 - H317, STOT SE 3 - H335, Aquatic Acute 1 - H400

**0.74 - 1.8% 7-methyl-3-methyleneocta-1,6-diene** CAS-No: 123-35-3EC No: 204-622-5 Classification (EC 1272/2008);Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319

0.01 - 2.2% Verbenol CAS-No: 473-67-6EC No: 207-470-8

Classification (EC 1272/2008); Skin Irrit. 2 - H315

Asp. Tox. 1 - H304

**0.31 - 1.7% 1, 8 cineole** CAS-No:470-82-6EC No: 207-431-5

Classification (EC 1272/2008); Flam. Liq. 3 - H226, Skin Sens. 1B - H317

**1.0 - 5.0% 1,alpha-(-)-Pinene** CAS-No:7785-26-4EC No: 232-077-3

Classification (EC 1272/2008);M factor (Chronic) = 1

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Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319
Skin Sens. 1 - H317, STOT SE 3 - H335, Aquatic Chronic 1 - H410
<b>0.01 - 2.9% Geraniol</b> CAS-No:106-24-1EC No: 203-377-1
Classification (EC 1272/2008);Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Skin Sens. 1 - H317
<b>0.01- 5.0% 6-Methyl-5-hepten-2-one</b> CAS-No:110-93-0EC No: 203-816-7
Classification (EC 1272/2008);Flam. Liq. 3 - H226
<b>0.01 - 3.3% Linalool</b> CAS-No:126-91-0EC No: 204-811-2
Classification (EC 1272/2008);Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, STOT SE 3 - H33
<b>0.01 - 3.0% Beta Caryophyllene</b> CAS-No: 87-44-5 EC No: 201-746-1
Classification (EC 1272/2008);Asp. Tox. 1 - H304
<b>0.18 - 1.2% Nerol</b> 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
<b>0.01 - 1.5% ß-(+)-Citronellol</b> 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	
Inhalation	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.	
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. Do not induce vomiting.	
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.	
Eye Contact	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.	
4.2	Most important symptoms and effects, both acute and delayed	
	No additional data available.	
4.3	Indication of any immediate medical atte	ention and special treatment needed
	No additional data available.	

## **05. FIRE-FIGHTING MEASURES**

5.1	Extinguishing Media
	Do not use a direct stream of water to extinguish. Use: Powder. Carbon dioxide (CO2).
5.2	Special hazards arising from the product
	Specific hazards: When heated and in case of fire, toxic vapours/gases may be formed.
5.3	Advice for firefighters
	Protective equipment for fire-fighters:
	Wear Self-contained breathing apparatus. Wear chemical protective clothing.

## **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.
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 inert, non-combustible, inorganic absorbent material, sweep up and remove to an
	approved disposal container. Extinguish all ignition sources. Avoid sparks, flames, heat and
	smoking.
6.4	Reference to other sections



No additional data available.

## **07. HANDLING AND STORAGE**

7.1	Precautions for safe handling
	Avoid spilling, skin and eye contact. Adopt best manual handling considerations when handling,
	carrying and dispensing.
7.2	Conditions for safe storage, including any incompatibilities
	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original
	container.
	Keep away from heat, sparks and open flame
7.3	Specific end use(s)
	No additional data available

#### 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

	Control parameters
	7-methyl-3-methyleneocta-1,6-diene (CAS:
DNEL	123-35-3)
	Workers - Dermal; Long term systemic effects:
	0.83 mg/kg
	Workers - Inhalation; Long term systemic effects:
PNEC	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
	- STP; 0.2 mg/l
	- Soil; 1.015 mg/kg
	<ul> <li>Fresh water; 0.00028 mg/l</li> </ul>
DNEL	- Marine water; 0.0008 mg/l
	- Sediment (Freshwater); 5.022 mg/kg
	<ul> <li>Sediment (Marine water); 0.502 mg/kg</li> </ul>
PNEC	1, 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/m³
	PNEC - STP; 10 mg/l
	- Soil; 0.2 mg/kg
	<ul> <li>Intermittent release; 0.57 mg/l</li> </ul>
	- Fresh water; 0.057 mg/l
	- Marine water; 0.0057 mg/l
	<ul> <li>Sediment (Freshwater); 0.06732 mg/kg</li> </ul>
	<ul> <li>Sediment (Marine water); 0.00673 mg/kg</li> </ul>

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#### 8.2 **Exposure controls** Protective Equipment **Process Conditions** Safety shower and eye bath. Provide adequate ventilation. **Engineering Measures** Respiratory equipment. Self-contained breathing apparatus. Protection not required if good ventilation is maintained. Use Respiratory Equipment inhalation protection in poorly ventilated areas. Hand Protection Use suitable protective gloves if risk of skin contact. Wear approved safety goggles. Eye Protection Other Protection Wear rubber apron. Remove contaminated clothing and wash the skin thoroughly with Hygiene Measures soap and water after work. Personal Protection Use personal protection according to Directive 89/686/EEC. Skin Protection Wear apron or protective clothing in case of splashes. **Environmental Exposure Controls** Avoid discharging into drainage water. Only eliminate by authorised companies.

#### 09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance	Mobile Liquid	
Colour	Pale yellow to yellow.	
Odour	Characteristic.	
Relative Density	0.902 - 0.913 @ 20°C	
Flash Point (°C)	65°	
Refractive Index	1.475 - 1.490 @ 20°C	
Melting Point (°C)	No additional data available.	
Boiling Point (°C)	~83.	
Vapour Pressure	No additional data available.	
Solubility in Water @20°C	Insoluble in water.	
Auto-ignition temperature (°C)	No additional data available.	

9.2	Other information
	No additional data available.



## 10. STABILITY AND REACTIVITY

10.1	Reactivity
	No additional data available.
10.2	Chemical stability
	Stable under the recommended handling and storage conditions.
10.3	Possible hazardous reactions
	No additional data available.
10.4	Conditions to Avoid
	Avoid heat, sparks and open flames.
10.5	Incompatible materials
	Materials To Avoid:
	Strong acids, alkali or oxidising agents.
10.6	Hazardous Decomposition Products
	In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

## 11. TOXOLOGICAL INFORMATION

TI. TOXOLOGICAL INI ORMATION		
11.1 Information on toxicological effects		
Acute Toxicity	There is no data available on this product. It must be considered and handled and should be dealt with the highest possible caution.	
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.	
Photo-toxicity	No additional data available.	
Other Information	No additional data available.	

## 12. ECOLOGICAL INFORMATION

12.1	Toxicity	
	Acute toxicity - fish LL <sub>50</sub> , 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	
	Bioaccumulative potential: No data available on bioaccumulation.	
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
	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 Sub	ostance Liquid N.O.S
14.3	Transport hazard class(es)	
	ADR/RID/ADN Class:	9 Miscellaneous dangerous substances and articles.
	ADR/RID Classification Code	M6
	ICAO Class/Division:	9
	IMDG Class:	9
	Transport Labels	



# 14.4 Packing group

 racking group	
ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	

## 14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



# 14.6 Special precautions for user

EMS F-A-S-F

ADR Transport Category3

Emergency Action Code •3Z

Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances.

Tunnel Restriction Code (E)

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

No additional data available.



#### 15. REGULATORY INFORMATION

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

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

10. OTTIER IN ORMATION	
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.

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.