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MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No 1272 of 2008 and
Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2017/1510

Organic May Chang (Litsea Cubeba Fruit) Oil

Version 01

Date of compilation: 13.07.2020

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1. Identification of the substance/mixture and the company/undertaking

1.1. Product Identifiers

Product name	:	Organic Litsea oil
Substance name (INCI)	:	LITSEA CUBEBA FRUIT OIL
REACH Registration No	:	
CAS No	:	68855-99-2/ 90063-59-5
EO No	:	- / 290-018-7
ISO	:	ISO 3214:2000
Biological origin	:	Produced by means of distillation of the fresh or Dried fruit of the tree Litsea Cubeba C.H. Peerson = Tetranthera polyantha var.citrata Nees = L.citrata Blue of Lauraceae family.

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

Use of substance/mixture	:	Used in perfumery and cosmetics by itself or as a formulation constituent, a part of a composition.
Recommended restrictions on use	:	No data available

1.3. Details of the supplier of the safety data sheet

Manufacturer	:	ALTEYA ORGANICS LLC
Mailing address/Postal code	:	6167, village of Yagoda, 1, Rozovarna Str.
Country identifier/ Postal code/city or town	:	Bulgaria
Telephone/Mobile/Fax	:	+359 700 15 502
E-mail of the competent person responsible for the Safety Data Sheet	:	salesbg@alteya.com
National contact person	:	Kaloyan Stoev



1.4. Emergency telephone number

Clinic of Toxicology at MPHATEM N.I. Pirogov
Emergency telephone number: 02 9154409; (regular working time, Saturdays and Sundays excluded) or 02 9154 346 (24h service, all week)
e-mail: poison_centre@mail.orbitel.bg
<http://www.pirogov.net>

2. Hazards Identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification according to GHS				
Chapter	Subsection	Class of hazard	Class of hazard and category of hazard	Hazard statements
3.10	Inh.	Aspiration hazard	(Asp. Tox. 1)	H304
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Skin sensitization	(Skin sens 1)	H317
3.3	Eye	Eye irritation	(Corrosion)Damage/Irritation. 2A	H319
4.1	Chronic	Hazardous for aquatic life	Aquatic Chronic 1	H411

2.1.2. Additional information:

For full text of hazard statements and EC specific hazard statements: see SECTION 16.

2.2. Label Elements

Designation according Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



GHS02 GHS07 GHS08 GHS09

Signal word : Hazardous
Hazard statements : H304 May be fatal if ingested or enters respiratory tract
H315 Causes skin irritation
H317 May cause allergic skin reaction
H319 Causes serious eye irritation

Hazard statements concerning environment :

H411 Toxic for aquatic life with long-lasting effect
EUH 208 Contains: Citral, Geraniol, Linalool, Hexyl Cinnamal. May cause allergic reaction.

Safety recommendations

Safety recommendations

- General P102 Keep out of reach of children
P261 Avoid inhaling evaporations



Safety recommendations

- Prevention
 - P273 Avoid release to the environment.
 - P280 Use protective gloves/protective clothing /protective goggles/protective facial mask.

Safety recommendations

- As a reaction
 - P301 + P310 IF INGESTED: immediately call TOXICOLOGY CENTRE or a physician
 - P331 DO NOT induce vomiting
 - P305+ P351+ 338 If in the eyes: Rinse carefully with water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.
 - P333+P313 If skin irritation or rash occurs: Seek medical advice/help.
 - P391 Collect the spillage.

Safety recommendations

- In stored
 - P411 Store at temperatures not higher than 25°C

Safety recommendations

- In discharge
 - P501 Dispose of contents / container in an approved place and in compliance with local and national regulations.

Other hazards

No other information available.

The substance meets vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII

3. Composition/information on ingredients

3.1 Substances/ Mixture

INGREDIENT	IDENTIFIERS	%	CLASSIFICATION
LITSEA CUBEBA FRUIT OIL	EINECS NO: - / 290-018-7 CAS NO: 68855-99-2 / 90063-59-5	100,0	Asp. Tox. 1 – H304 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Eye Irrit. 2 – H319 Aquatic Chronic 2 - H411
α -PINENE	EINECS NO: - 201 - 291-9 CAS NO: 80-56-8	Up to 1,5	Acute Tox. Oral 5 (H303) Skin Sens. 1B (H317} Skin Irrit. 2 (H315) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
6-METHYL-5-HEPTEN-2-ONE	EINECS NO: 203-816-7 CAS NO: 110-93-0	1,8 – 3,0	Flam. Liq. 3, H226
NEROL	EINECS NO: 203-378-7	0,2 – 1,2	Skin Irrit. 2 – H315



	CAS NO: 106-25-2		Eye Irrit. 2 - H319
GERANIOL	EINECS NO: 203-377-1 CAS NO: 106-24-1	0,5 – 6,0	Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Eye Dam. 1, H318
CITRAL	EINECS NO: 226-394-6 CAS NO: 5392-40-5	1,5 – 20,0	Skin Irrit. 2 – H315 Skin Sens. 1 – H317
LINALOOL	EINECS NO: 201-134-4 CAS NO: 78 – 70 - 6	1,5 – 3,0	Acute Tox. Oral 5 (H303) Eye Irrit. 2A (H319) Flam. Liq. 4 (H227) Aquatic Acute 3 (H402) Skin Sens. 1B (H317} Skin Irrit. 2 (H315)
HEXYL CINNAMAL	EINECS NO: 202-983-3/639-566-4 CAS NO: 101-86-0	0,1 – 0,5	Skin Sens. 1B (H317) Aquatic Chronic 3, (H412)
b-Caryophyllene	EINECS NO: 201-746-1 CAS NO: 87-44-5	~0,5	Asp. Tox. 1 (H304)

4. First Aid Measures

4.1. Description of first aid measures

- General notes : In case of sickness seek medical advice (if possible show the label).
- Following inhalation : Immediately remove the exposed individual away from the source of exposure to fresh air. In case the sickness persist seek medical advice.
- Following skin contact: Take off the contaminated clothing immediately. Wash the affected area with plenty of water and soap. In case of rash or redness seek medical advice.
- Following eye contact : Immediately start rinsing the eyes with plenty of water for at least 15 min. Remove the contact lenses. Immediately seek medical advice. Continue rinsing.
- Following ingestion : Do not induce vomiting. Wash the mouth with plenty of water immediately. Seek medical advice.
- Self-protection of first aid provider : No other information available

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

- Symptoms : Causes eye and skin irritation. May cause allergic skin reaction in case of sensitive, susceptible people.
- Effects : No other information available.



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

Treatment : There isn't a specific antidote.
Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂) dry powder, foam.

Unsuitable extinguishing media : Water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Possible generation of harmful and toxic evaporations in case of fire.

Specific hazards during fire-fighting : No information available

5.3. Advice for firefighters

Special protective equipment for firefighters : Use appropriate breathing equipment.
Wear complete protective clothing.

Additional data : Fight fire using the usual precautionary measures from an appropriate distance.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For personnel not responsible for emergencies

Personal precautionary measures, protective equipment and emergency procedures : Wear protective clothing, as described in Section 8 of in this Material safety data sheet. Handle the product using protective gloves.
Avoid contact with skin and inhalation of evaporations or smoke. After spillage maintain adequate ventilation in the operating area.

6.1.2. For the persons responsible for emergencies

Evacuate the area. Wear personal protective equipment. Move the people away from the



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spillage/leakage downwind. For personal protection see Section 8.

6.2. Environmental precautions

Environmental precautions : Avoid discharge in sewer system, water sources or on the soil.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment : Do not absorb the leakage using wood chips or other combustible materials. Use dry sand. Collect as much as possible in a clean container for disposal.

6.3.2. For cleanup : Dispose of waste according to the laws and regulations in force.

6.3.3. More information : Wear protective clothing, as described in section 8 of in this Material safety data sheet.

6.4. Reference to other sections

For personal protective equipment: see section 8.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions : Provide adequate ventilation when using the material and follow the principle of good occupational hygiene and control of personal exposure. Avoid and eye contact.

Fire-fighting measures : Keep away from ignition sources.

Measures to avoid transformation into aerosols and powder : No data available.

Environmental precautions : Follow the instructions on product storage.

Advice on general occupational hygiene : Wash your hands before breaks and at the end of the working day. Avoid eye and skin contact.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Store the product in tightly closed original



container, in a dry and cool place, far from potential ignition sources, protected from light at temperature from 5 to $\leq 25^{\circ}$.

Packing materials	:	The oil is poured into containers made of stainless steel.
Incompatible materials	:	Incompatible with strong oxidizing materials.
Requirements to storage premises	:	Use local and general ventilation in the premises at the recommended temperature. The packages should be full and stored in dark and cool premises. In the presence of air, moisture and heat the citral content decreases.
Storage class	:	No information available
Recommendations for fire and explosion protection	:	Not known.
Recommendations for primary storage	:	Store in a cold and cool place.
General rules are recommended according to	:	SD ISO/TS 210:2015.

7.3. Specific end use(s)

Recommendations	:	Do not use undiluted.
Solutions specific to the industry sector	:	No information available.
Specific use(s)	:	Used in perfumery and cosmetics by itself or as a formulation constituent, included in a composition.

8. Exposure controls/Personal protection equipment

8.1. Control parameters

Occupational exposure limits are determined on the basis of data base of international limit values GESTIS

Other occupational exposure limits

Information on monitoring procedures

Relevant DNEL-/DMEL-/PNEC and other threshold levels



- **Values affecting human's health**

DERIVED NO EFFECT LEVEL (DNEL) OR DERIVED MINIMUM EFFECT LEVEL (DMEL): LINALOOL (CAS:78-70-6)

FINAL USE: WORKERS.
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS. DNEL: 5MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.
DNEL: 15MG OF SUBSTANCE/CM²

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 2.5MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM LOCAL EFFECTS.
DNEL: 15MG OF SUBSTANCE/CM²

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 16.5MG OF SUBSTANCE/M³

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 2.8MG OF SUBSTANCE/M³
FINAL USE: CONSUMERS.

EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 1.2MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 0.2MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 2.5MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.
DNEL: 15MG OF SUBSTANCE/CM²



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EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 1.25MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM LOCALEFFECTS.
DNEL: 15MG OF SUBSTANCE/CM²

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 4.1MG OF SUBSTANCE/M³

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 0.7MG OF SUBSTANCE/M³

PREDICTED NO EFFECT ENTRATION (PNEC):
LINALOOL(CAS:78-70-6)

ENVIRONMENTAL COMPARTMENT:SOIL.
PNEC: 0.327MG/KG

ENVIRONMENTAL COMPARTMENT: FRESH WATER.
PNEC: 0.2MG/L

ENVIRONMENTAL COMPARTMENT:SEA WATER.
*PNEC:*0.02MG/L

ENVIRONMENTAL COMPARTMENT: INTERMITTENT WASTE WATER.
PNEC: 2MG/L

ENVIRONMENTAL COMPARTMENT: FRESH WATER SEDIMENT.
PNEC: 2.22MG/KG

ENVIRONMENTAL COMPARTMENT: MARINE SEDIMENT.
PNEC: 0.222MG/KG

ENVIRONMENTAL COMPARTMENT: WASTE WATER TREATMENTPLANT.
PNEC: 10MG/L

8.2. Exposition controls

8.2.1. Appropriate engineering control

Measures related to the substance/mixture to prevent exposure during identified uses

: The description of the adequate control of exposure measures concerns the specified in subsection 1.2 identified use(s) of the substance or mixtures.



This information is sufficient to make it possible for the employer to evaluate the risk originating from the substance or the mixture for the health of workers according to articles 4 – 6 of Directive 98/24/EC and articles 3 – 5 of Directive 2004/37/EC.

This information supplements the information presented in section 7. Provide adequate ventilation. It is always recommended to follow the good personal hygiene practices, especially while working with chemical/oils.



8.2.2. Personal protective equipment:

8.2.2.1. Eyes and face protection : Wear approved protective goggles.

8.2.2.2. Skin protection

Hand protection : To avoid contact with skin wear resistant to chemical gloves (PVC).

Other skin protection : Wear appropriate protective clothing, to avoid any skin contact.

8.2.2.3. Respiratory tract protection : In case of high concentrations use breathing equipment.

8.2.2.4. Thermal hazards : NA

8.2.3. Environmental exposure controls

: Avoid disposal in drainage waters.
To be eliminated by authorized companies only.

Measures related to the substance/
mixture, to avoid exposition

: No data available.

Training measures related
required to avoid exposure

: The training of the staff is organized according
to a company schedule.

Organization measures to avoid
exposure

: Training of staff

Technical measures to avoid
exposure

: Training of staff

Environmental exposition controls



Basic guidelines : Do not wash-off in surface waters.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	:	Mobile liquid.
Color	:	pale-yellow to pale-brown
Odor	:	specific, fresh reminding of citral and verbena.
Odor threshold	:	No information available.
pH	:	No information available
Boiling point/ Freezing point	:	No information available
Boiling point	:	No information available
Boiling point / boiling range	:	No information available
Ignition temperature, in °C	:	78°C
Evaporation rate	:	No information available
Flammability (solid substance, gas):	:	No information available
Upper flammability / explosion limit	:	No information available
Lower flammability / explosion limit	:	No information available
Vapor pressure	:	No information available
Solubility (ies)	:	Soluble in alcohol and oils, aromatic hydrocarbons. halogenated solvents and ketone.
Insoluble in	:	water
Partition coefficient n-octanol/ water Log/Pow	:	No information available
Autoignition temperature	:	No information available
Decomposition temperature	:	No information available
Explosivity properties	:	No information available



Additional information

Refraction coefficient at 20°C : 1.470 - 1.500

Relative density at 20⁰ C : 0.880 - 0.910

Optical rotation in ° : -3.0 to +12.0

No other information available.

10. Stability and Reactivity

10.1. Reactivity

Advice : Stable at the recommended conditions of handling and storage.

10.2. Chemical stability

Advice : Stable at the recommended conditions of work and storage.

10.3. Possible hazardous reactions

Hazardous reactions : No additional data available.

10.4. Conditions to avoid

Conditions to avoid : To store away from oxidizers, heat, flames or ignition sources.

Thermal decomposition : No additional data available.

10.5. Incompatible materials

Materials to avoid : Avoid contact with oxidizing substances.

10.6. Hazardous decomposition products

Hazardous decomposition products : Reaction products may be acidic and toxic gases.

All the values presented bellow are taken from literary sources. There is not available toxicology information information concerning the mixture itself.

11. Information on toxicological effects

11.1. Information on toxicological effects

Acute toxicity

Litsea Cubeba Fruit Oil



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LD50 Oral (Rat) >= 5000 mg/kg

LINALOOL(CAS:78-70-6)

ORAL ROUTE: LD50=2200MG/KG

SPECIES: MOUSE

OECDGUIDELINE 401(ACUTE ORAL TOXICITY)

Hexyl Cinnamal

Acute toxicity LD50 Oral route - rat - 3.100 mg/kg

Citral

Acute toxicity LD50 Oral route - rat – male and female - 6.800 mg/kg

LD50 Dermal route - rat – male and female - > 2.000 mg/kg

Geraniol

LD50 Oral route - rat - 3.600 mg/kg

Notes: Behavioral: somnolence (generally suppressed activity). Behavioral: coma. Skin and dermal appendages: others: hair.

Corrosion/Skin irritation

Litsea Cubeba Fruit Oil

LD50 Dermal route (Rabbit) >= 4800 mg/kg

Geraniol

LD50 Dermal route - Rabbit - > 5.000 mg/kg

Corrosivity/skin irritation Skin - Rabbit

Result: Skin irritation. - 24 h

(OECD Test instructions 404)

LINALOOL(CAS:78-70-6)

DERMAL ROUTE

:LD50=5610MG/

KG SPECIES: RABBIT

OECDGUIDELINE 402(ACUTE DERMAL TOXICITY)

LINALOOL(CAS:78-70-6)

IRRITATION: AVERAGE SCORE =1.85

EFFECT OBSERVED : ERYTHEMA SCORE

SPECIES : RABBIT

DURATION OF EXPOSURE : 24HOECDGUIDELINE 404(ACUTE DERMAL IRRITATION /CORROSION)

Notes : Irritates skin and mucous membranes.

Serious damage/eye irritation



Result : Seriously irritation of eyes.

Citral

Eyes - Rabbit

Result: Causes serious eye irritation.

(OECD Guideline 405)

Geraniol

Serious eye corrosion/irritation

Eyes - Rabbit

Result: Risk of serious eye damage. - 24 h

(Ordinance 67/548/EEC, Annex V, B.5.)

LINALOOL(CAS:78-70-6)

CORNEAL HAZE:AVERAGE SCORE =1

SPECIES : RABBIT

DURATION OF EXPOSURE : 24H OECDGUIDELINE 405 (ACUTE EYE IRRITATION /CORROSION)

IRITIS:AVERAGE SCORE =0.6

SPECIES : RABBIT

DURATION OF EXPOSURE : 24H OECDGUIDELINE 405(ACUTE EYE IRRITATION /CORROSION)

CONJUNCTIVAL REDNESS: AVERAGE SCORE =2.3

SPECIES : RABBIT

DURATION OF EXPOSURE : 24H OECDGUIDELINE 405(ACUTE EYE IRRITATION /CORROSION)

Respiratory or skin sensitization

Citral

Maximization test - Guinea pig

Result: positive

(OECD Guideline 406)

Notes: Classified according to Regulation (EU) 1272/2008, Annex VI

(Table 3.1/3.2)

Geraniol

- Guinea pig - possible sensitization if skin contact.

Note : If contact with skin may cause allergic skin reaction.

Ingestion

Note : No data available.

Mutagenicity of germ cells



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Note : No data available.

Carcinogenicity

Note : No data available.

Summary of the assessment of CMR properties

Note : No data available

STOT (specific target organ toxicity) — single exposure

Note : No data available

STOT (specific target organ toxicity) — repeated exposure

Note : No data available

Aspiration hazard

Note : No data available

Information on possible routes of exposure

Note : No data available

Symptoms related to physical, chemical and toxicological characteristics

Note : Toxicological characteristics are not comprehensively studied

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Note : Toxicological characteristics are not comprehensively studied

Interactions

Note : Toxicological characteristics are not comprehensively studied

Lack of specific data

Note : Toxicological characteristics are not comprehensively studied



Mixtures

Note : Toxicological characteristics are not comprehensively studied

Medical consideration

Note : The persons having rash are directed to dermal specialist to be examined for allergic eczema.

Other information

Note : Aspiration of liquid may cause pulmonary edema.

12. Ecological information

Note : Toxic to aquatic life with long-time effect.

12.1. Toxicity

Product:

Acute (short-term) toxicity:

Fish

Geraniol

Static test LC50 - *Danio rerio (barbus)* - approximately. 22 mg/l - 96 h
(OECD Guideline 203)

Citral

Static test LC50 - *Leuciscus idus (golden orfe)* - 6,78 mg/l - 96h
(DIN 38412)

LINALOOL(CAS:78-70-6)

FISH TOXICITY: DURATION OF EXPOSURE :96H
LC50=27.8MG/L
SPECIES :ONCORHYNCHUS MYKISS
OECDGUIDELINE 203(FISH,ACUTE TOXICITY TEST)

Toxic for Daphnia and other aquatic invertebrates

Citral

Static test EC50 - *Daphnia magna (Daphnia)* - 6,8 mg/l - 48 h
Notes: (ECHA)

Geraniol

Immobilization EC50 - *Daphnia magna (Daphnia)* - 10,8 mg/l - 48 h
(OECD Guideline 202)



LINALOOL(CAS:78-70-6)

CRUSTACEAN TOXICITY DURATION OF EXPOSURE :48H
EC50=59MG/L
SPECIES :DAPHNIA MAGNA
OECDGUIDELINE 202(DAPHNIA SP.ACUTE)

Algae/aquatic plants

Citral

Static test EC50 - *Desmodesmus subspicatus* (green algae) - 103,8 mg/l - 72 h

Geraniol

Growth retardation EC50 - *Desmodesmus subspicatus* (green algae) - 13,1 mg/l - 72 h

LINALOOL(CAS:78-70-6)

IMMOBILISATION TEST
ALGAE TOXICITY: DURATION OF EXPOSURE :96H
ECR50=88.3MG/L
SPECIES :DESMODESMUS SUBSPICATUS
OTHER GUIDELINE

Bacteria

Citral

EC50 - *Pseudomonas putida* (Rod-shaped gram-negative bacterium) - 2.100 mg/l - 30 min
Notes: (External Safety Data Sheet)

Note : No data available

Chronic (long-term) toxicity:

Note : No data available

Fish

Note : No data available

Shellfish

Note : No data available

Algae/water plants



Note : No data available

Other organisms

Note : No data available

12.2. Persistence and degradability

Product:

Abiotic degradation

Note : No data available

Physical and photo-chemical elimination

Note : No data available

Biochemical degradation

Note : No data available

12.3. Bioaccumulation

Product:

Partition coefficient n-octanol/water (log Kow)

Note : No data available

Bioconcentration factor (BCF)

Notes : Does not accumulate in biological environment

12.4. Mobility in soil

Product:

Known or predicted distribution in environmental components

Note : No data available

Surface tension

Note : No data available

Adsorption/desorption

Note : No data available

12.5. Results of PBT and vPvB assessment

This product doesn't contain substances considered persistent, nor strongly bioaccumulative vPvB.

This product doesn't contain substances considered persistent, bioaccumulative nor toxic PBT.



Product:

Results from PBT and vPvB assessment

Notes : No information available

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)

Value : No information available

Chemical oxygen demand (BOD)

Value : No information available

Additional ecological information/Mobility in soil

Notes : No information available

12.7. Additional information

Notes : Avoid release of products in streams, sewer systems or other water routes.

13. Disposal Considerations

13.1. Waste treatment methods

13.1.1. Disposal of product/packing

Codes/designation of waste according to LoW: -

Product : No data available.

Contaminated packaging material : No data available.

European Catalogue waste number : No waste code can be given to this product according to the European Waste Catalogue since it is related to its potential use. Waste code is given after consulting the regional waste Service

Information on waste treatment : Dispose in accordance with all local and national regulations.

13.1.2. Information on discharge in sewer systems : Avoid discharge of product in streams, sewer systems



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or other water routes.

13.1.3. Other recommendations
on waste disposal : No data available.

14. Information on transportation

3082

14.1. UN number

3082

14.2. UN proper shipping name



*3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, O.V.O.
(LITSEA CUBEBA OIL)*

14.3. Transport hazard class(es)

Class 9, Pack,gr.III

14.4. Packing group

Class 9, Pack,gr.III

14.5. Environmental hazards



14.6. Special precautions for user

Not known

14.7. Transport in bulk according to Annex II to MARPOL and IBC Code“

Road transport

ADR *3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, O.V.O.*

Hazard No (ADR) 90



Waterway transport

ADN 3082 *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, O.V.O.*

Maritime transport

IMDG 3082 *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, O.V.O.*, Marine pollutant: Yes

IMDG Pack Gr. Pk Gr III

Air transport

IATA/CAO 3082 *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, O.V.O.*

EMS F-A, S-F

15. Regulatory information

15.1. Legislation specific for the substance or mixture / safety, health and environmental regulations

Other regulations / Laws : This safety data sheet is consistent with the Law on Protection from Harmful Effects of chemical Substances and Preparations and the Ordinance on the Classification, Packaging and Labelling

EU legislative acts : accordingly, EU regulations.

Permits or restrictions for use : No information available

Permits : Not required

Restrictions on use : No information available.

Other EU legislative acts : According to the effective Regulations

Information according to Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC Guide)

Restrictions for use in working environment : No information available

Other legal acts, restrictions and prohibitive standards : No information available



15.2. Chemical Safety Assessment

No data available.

The supplier had not prepared a chemical safety assessment for this substance/mixture.

16. Other information

Shelf life

2 years in case of correct storage.

Classification and procedure used to obtain the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]

Abbreviations and acronyms:

Abbr.	Description of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (prepares the most comprehensive list of chemicals)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Classification, Labelling and Packaging)
CMR	Carcinogenic, mutagenic and toxic for reproduction (substance)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" ", developed by the United Nations
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
MARPOL	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant)
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail)
vPvB	very Persistent and very Bioaccumulative

Aspiration hazard

(Asp. Tox. 1)

Skin irritation

Corrosion/irritation 2

Skin sensitization

(Skin sens 1)

Eye irritation

(Corrosion) Damage/Irritation. 2A

Hazardous for aquatic life

Aquatic Chronic 2

Main references and sources of data in the literature

- Regulation (EC) No 1907/2006 (REACH), as amended by 2015/830/EU
- Regulation (EC) No 1272/2008 (CLP, EC GHS)



	List of relevant phrases (code and full text as defined in Section 2 and 3)
Code	Text
H304	May be fatal if ingested or enters respiratory tract
H315	Causes skin irritation
H317	May cause allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic for aquatic life with long-lasting effect
EUH 208	Contains Citral, Geraniol, Linalool, and Hexyl Cinnamal. May cause allergic reaction.
	List of instructions for safe treatment, used in the safety document
P102	Keep away from children
P261	Avoid inhaling evaporations.
P273	Avoid release in environment.
P280	Use protective gloves/protective clothing/protective goggles /protective face mask.
P301+P310	IF INGESTED: Immediately call the TOXICOLOGY CENTRE or a physician.
P331	DO NOT induce vomiting.
P333+P313	In case of skin irritation or rash: seek medical advice/help
P305 + P351 + P338	IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove the contact lenses if there are such and if possible. Continue rinsing.
P391	Collect the spillage
P411	Store at temperatures not higher than 25°C
P501	Dispose of the content / container in an approved for disposal place in compliance with the local and national regulations.

Other information

: In accordance with general product specification:
 The information in this material safety data sheet is meant to represent typical data/analysis for this product and was obtained from current and reliable sources.
 To the best of our knowledge, data is accurate and based on our knowledge and information, at the time of publication.
 The information presented is intended only as a guidance for proper and safe use, handling, storage, transportation and disposal, and should not be considered a guarantee /expressed or implied/ or a quality specification with respect to the correctness or accuracy.
 It is responsibility of the user to determine any safe conditions for use of this product, and to assume responsibility for any loss, injury, damage or expenses resulting from the improper use of this product.
 The information relates to the specific product only and is not valid when it used in combination with other materials or in any process, unless specified in the text.



ALTEYA[®]
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The information provided does not constitute a delivery contract; regarding any specification or a given application, the buyer must determine for himself the requirements and recommendations for use of the product.

Disclaimer :

The data in this Safety Data Sheet correspond to the fair presentation of our experience at the time of printing. The information should give you basic guidelines for safe handling of this product, specified in the Safety Data Sheet, regarding its storage, processing, transport and disposal. Data cannot be assigned to other products.

If the product is mixed or processed with other materials, or if it is subject to processing, the data in this Safety Data Sheet cannot be assigned to the new material unless expressly stated otherwise.

E N D!



LIST OF 26 ALLERGEN SUBSTANCES / ANNEX III TO REGULATION (EC) NO 1223/2009

Customer: „ ALTEYA ORGANICS LLC 1Rozovarna Str., 6167, Village of Yagoda, Stara Zagora Region
Name of product: Litsea Cubeba Fruit Oil

	NAME OF SUBSTANCES	REMARK	CAS №	EINEC S №	NATURAL %	SYNTHETIC %	TOTAL %
1	AMYL CINNAMAL	H317; H411	122-40-7	204-541-5	-	-	-
2	AMYL CINNAMYL ALCOHOL	H315; H317	101-85-9	202-982-8	-	-	-
3	ANISE ALCOHOL	H302; H318 H317	105-13-5	203-273-6	-	-	-
4	BENZYL ALCOHOL	H332; H302	100-51-6	202-859-9	-	-	-
5	BENZYL BENZOATE	H302	120-51-4	204-402-9	-	-	-
6	BENZYL CINNAMATE	H317; H411	103-41-3	203-109-3	-	-	-
7	BENZYL SALICYLATE	H317; H411	118-58-1	204-262-9	-	-	-
8	CINNAMAL	H312; H315 H317	104-55-2	203-213-9	-	-	-
9	CINNAMYL ALCOHOL	H317	104-54-1	203-212-3	-	-	-
10	CITRAL	H315; H317	5392-40-5	226-394-6	20,0	-	20,0
11	CITRONELLOL	H315; H317 H411	106-22-9	203-375-0	-	-	-
12	COUMARIN	H302; H317	91-64-5	202-086-7	-	-	-
13	EUGENOL	H319; H317	97-53-0	202-589-1	-	-	-
14	FARNESOL	H315; H319	4602-84-0	225-004-1	-	-	-
15	ALPHA-ISOMETHYL IONONE	H412	127-51-5	204-846-3	-	-	-
16	GERANIOL	H315; H317	106-24-1	203-377-1	6,0	-	6,0
17	HEXYL CINNAMAL	H317;	101-86-0	202-983-3	0,5	-	0,5
18	HYDROXYCITRONELLAL	H319; H317	107-75-5	203-518-7	-	-	-
19	ISOEUGENOL	H312; H302 H319; H315 H317	97-54-1	202-590-7	-	-	-
20	BUTYLPHENYL METHYLPROPIONAL (LILIAL)	H317	80-54-6	201-289-8	-	-	-
21	LIMONENE	H226; H315 H317; H411	5989-27-5	227-813-5	-	-	-
22	LINALOOL	H315	78-70-6	201-134-4	2,0	-	2,0
23	HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (LYRAL)	H317	31906-04-4	250-863-4	-	-	-
24	METHYL 2-OCTYNOATE	H302; H317	111-12-6	203-836-6	-	-	-
25	EVERNIA FURFURACEA LICHEN EXTRACT (TREMOSSE EXTRACT)	H317	90028-67-4	289-860-8	-	-	-
26	EVERNIA PRUNASTRI (OAK MOSS)	H317	90028-68-5	289-861-3	-	-	-

According to Regulation EO 1223/2009 is hereby amended as follows:

The presence of the substance must be indicated in the list of ingredients referred to in Article 6(1)(g) when its concentration exceeds: — **0,001 %** in “leave-on” products, (and) — **0,01 %** in “rinse-off” products