

Safety Data Sheet

In accordance with REACH Regulation EC No.1907/2006

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Litsea Cubeba Essential Oil (also known as May Chang)
CAS number: 90063-59-5
EINECS number: 943-438-6
Other names: May Chang Oil, Litsea Cubeba Fruit Oil
INCI name: Litsea Cubeba Fruit Oil

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

Industrial use: Washing and cleaning products.
Professional use: Washing and cleaning products; polishes and wax blends; cosmetics; oral care products.
Consumer use: Washing and cleaning products; polishes and wax blends; cosmetics; oral care products; biocides; air care products.

1.3. Details of the supplier of the safety data sheet

Company name: Bath and Body Base Ltd
2A Laurel Way
Bishop Auckland
Co. Durham
DL14 7NF
Tel: 07493 064263
Email: technical@bathandbodybase.com

1.4. Emergency telephone number

Emergency tel: 07493 064263

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]: Asp. Tox. 1 – H304
Skin Irrit. 2 – H315
Skin Sens. 1 – H317
Eye Irrit. 2 – H319
Aquatic Chronic 2 – H411

2.2. Label elements

Label elements labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard statements: 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.
H411: Toxic to aquatic life with long-lasting effects.

Signal words: DANGER

Hazard pictograms:**Precautionary statements (prevention):**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/clothing/eye-protection/face protection.

Precautionary statements (response):

P301+P316: IF SWALLOWED: Get emergency medical help immediately.
P331: DO NOT induce vomiting.
P302+P352: IF ON SKIN: wash with plenty of water.
P333+P317: IF SKIN irritation or rash occurs: Get medical help.
P362+P364: Take off contaminated clothing and wash it before reuse.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P317: IF EYE irritation persists: Get medical help.
P391: Collect spillage.

Precautionary statements (storage):

P405: Store locked up.

Precautionary statements (disposal):

P501: Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

2.3. Other hazards

Other hazards:

All essential oils are highly concentrated so have strong aromas and colour that can stain.

Litsea Cubeba Oil contains over 11% Hydrocarbons (19%). Emergency treatment for those who accidentally swallow oils in this category is to seek medical attention immediately and transport sitting in a half-upright position.

Substance is not identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

Substance does not meet the criteria for vPvB and PBT according to Regulation (EC) No 1907/2006, Annex XIII.

Section 3: Composition/information on ingredients
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3.1. Chemical identity of the substance
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Chemical identity: Litsea Cubeba, Ext.

Common names(s), synonym(s): May Chang Oil

3.2. Substances

Mixture/Natural Complex Substance (NCS):

This is a Natural Complex Substance (NCS). The substance has a natural variability in its composition. It is obtained by steam distillation of the fruits of Litsea Cubeba.

**Chemical Identity of
ingredients:**

Classification according to COMMISSION REGULATION (EU) 2017/542 of 22 March 2017 amending Regulation (EC) No 1272/2008

Major components of this natural complex substance are:

70 to 85% **Citral (Neral + Geranial)** – CAS 5392-40-5, EC 226-394-6: Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319

5 to 14% **Limonene** – CAS 5989-27-5, EC 227-813-5: Flam. Liq 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

1 to 3% **Linalool** – CAS 78-70-6, EC 201-134-4: Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319

1 to 3% **Citronellal** – CAS 106-23-0, EC 203-376-6; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319

0.4 to 2.5% **Geraniol** – CAS 106-24-1, EC 203-377-1: Skin Irrit.2, H315; Skin Sens.1, H317; Eye Dam. 1, H318

0 to 2.5% **β -Myrcene** – CAS 123-35-3, EC 204-622-5: Flam. Liquid 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 2, H411

0 to 2% **α -Pinene** – CAS 80-56-8, EC 201-291-9: Flam. Liq. 3, H226; Acute Tox 4, H302; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute, H400; Aquatic Chronic 1, H410

0 to 2% **1,8-Cineole** – CAS 470-82-6, EC 207-431-5: Flam Liq. 3, H226; Skin Sens. 1B, H317

0 to 1.5% **β -Pinene** – CAS 127-91-3, EC 204-872-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic, 1 H410

Section 4: First aid measures**4.1. Description of first aid measures**

General advice:	Depending on the level/type of exposure, small levels can be treated by first aider. Larger contact or if symptoms persist, seek medical help immediately.
Skin contact:	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye contact:	Flush with plenty of water and seek medical advice if necessary.
Swallowed:	Wash mouth with plenty of water and obtain medical advice immediately.
Inhalation:	Remove from the exposure area to fresh air. Contact a doctor if necessary.
Self-protection of First Aider:	Use personal protective equipment as described in Section 8 if substance is present.

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

Most important symptoms and effects:	None specified.
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4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment: No specific first aid measures noted.

Section 5: Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder or appropriate/alcohol-free foam.

Unsuitable extinguishing media: Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: May produce fumes of carbon monoxide and carbon dioxide, smoke and soot.

5.3. Advice for fire-fighters

Advice for fire-fighters: Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.

5.4. Emergency action code

Emergency action code: 3[Y] (Foam + BA & Fire Kit)

Section 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Use personal protective equipment. Avoid saturated vapour/aerosol/mist formation. Avoid breathing vapour/aerosol/mist. Ensure adequate ventilation. Avoid all sources of ignition.

For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if excessive mist, vapour or aerosol is generated.

6.2. Environmental precautions

Environmental precautions: Do not allow material to be released to the environment/surface or ground water/sewers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean up spillage promptly. Provide adequate ventilation. Avoid excessive inhalation of vapours. Soak up spillage with sand or other inert absorbent material such as earth or vermiculite, transfer used material to a suitable waste container and dispose in accordance with local regulations. Pick up and arrange disposal without creating mist/aerosol/excessive vapours. Keep in upright, suitable, closed containers for disposal.

6.4. Reference to other sections

Reference to other sections: Take hazard and precautionary phrases (Section 2) and Sections 7, 8 and 13 into account.

Section 7: Handling and storage

7.1. Precautions for safe handling

Protective measures:	Avoid inhalation and contact with skin and eyes. Avoid formation of mist and aerosols. Provide appropriate exhaust ventilation at places where mist/aerosols/excessive vapours are formed. Normal measures for preventive fire protection.
Advice on general occupational hygiene:	Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage:	Keep container tightly closed in a dry and well-ventilated place.
Packaging:	Refer to Section 16 for safe packaging information.
Incompatibilities:	Refer to Section 10.

7.3. Specific end use(s)

Recommendations:	None specified (as per REACH dossier).
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Section 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:	Not available.
Additional exposure limits under the conditions of use:	Not available.
DNEL/DMEL and PNEC-Values:	Not available.

8.2. Exposure controls



Engineering controls:	No specific information available. Handle and store in accordance with good industrial hygiene and safety practices. Wear appropriate PPE according to Directive 89/686/EEC.
PPE – General:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, using the bathroom and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Refer to Section 5 for specific fire/chemical personal protective equipment advice.
PPE – Eye/face:	Use protection goggles according to EN166.

PPE – Skin:**Hand:**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The quality of the protective gloves resistant to chemicals and the breakthrough time must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Other:

Wear protective clothing according to that recommended by the risk assessment for the product's use. Always wash routinely before breaks, meals and at the end of the work period.

PPE – Respiratory:

Not generally required. Respiratory protection may be required if excessive airborne contamination occurs.

Environmental exposure control:

Avoid discharge into the environment. Refer to additional information provided in Sections 6 and 7 regarding safe handling and storage to prevent exposure to individuals and/or to the environment. Refer to official regulations (local/government).

Section 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Clear mobile liquid
Colour:	Pale to yellow
Odour:	Characteristic with citral odour
Relative density:	@ 20°C: 0.880 to 0.905
Refractive index:	@ 20°C: 1.480 to 1.490
Optical rotation:	@ 20°C: no data
Peroxide value:	0 to 10 milliequivalents of O ₂ per kg
Solubility:	@ 25°C: (water) 0.5 - 4364mg/l – for range of constituents
Boiling point:	@ 101 325 Pa: 83°C
Vapour pressure:	@ 25°C: 60.29 Pa (initial vapour pressure). The vapour pressure of the constituents ranges from 1.06 to 981 Pa
Freezing point:	@ 101 325 Pa: < -20°C
Flash point:	68.3°C (REACH dossier - Pensky Martens Closed Cup method).
Flammability:	The study does not need to be conducted because the substance is known to be stable in contact with air at room temperature for prolonged periods of time (days) and it does not contain metals or metalloids hence the classification procedure does not need to be applied.
Explosiveness:	The study does not need to be conducted because there are no chemical groups present in the molecule which are associated with explosive properties.
Auto-ignition temperature:	@ 101 325 Pa: 265°C
Kinematic viscosity:	No data available (REACH dossier).
Partition coefficient n-octanol/water (log value):	@ 25°C: Litsea cubeba oil is an NCS; the log Kow range of its constituents is 2.06 - 6.3. 16.90% of the constituents has a log Kow >= 4
Relative vapour density:	No data available (REACH dossier).

9.2. Other information

Information with regard to physical hazard classes:	Categories not relevant for the safe use of this substance.
Other safety characteristics:	Categories not relevant for the safe use of this substance.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity:	No data available (REACH dossier).
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10.2. Chemical stability

Chemical stability:	No data available (REACH dossier).
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10.3. Possibility of hazardous reactions

Hazardous reactions:	No data available (REACH dossier).
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10.4. Conditions to avoid

Conditions to avoid:	Keep away from heat or flame. Use only in a well-ventilated area.
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10.5. Incompatible materials

Materials to avoid:	Highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.
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10.6. Hazardous decomposition product

Haz. decomp. products:	May produce carbon monoxide and carbon dioxide upon decomposition.
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Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity, oral:	Not classified - rat LD50 > 5000mg/kg bw
Acute toxicity, inhalation:	Not determined, study scientifically not necessary/other information available.
Acute toxicity, dermal:	Not classified - rabbit LD50 = 4800mg/kg bw
Eye irritation:	Classified as irritating (Eye Irrit. 2 - H319) – Weight of Evidence approach, rabbit cornea (method similar to OECD 405).
Skin irritation:	Classified as irritating (Skin Irrit. 2 - H315) – Weight of Evidence approach, rabbit skin (method similar to OECD 404).
Skin sensitivity:	Classified skin sensitising (Skin Sens. 1B – H317) – Local Lymph Node Assay (mice), derived EC3 value of 8.4%.
Mutagenicity/carcinogenicity:	Not classified for genotoxicity (three tests – OECD guidelines 471, 473 and 476).
Fertility/reproduction:	Not classified for reproductive toxicity according to Guideline OECD 421 study (Citral - Reproductive NOAEL and Developmental/Parental NOAEL, rat = 1000 and 200mg/kg bw/day respectively).

STOT-single exposure:	Data lacking (ECHA).
STOT-repeated exposure:	Data lacking (ECHA).
Aspiration hazard:	Classified Asp. Tox. 1 – may cause lung damage if liquid enters airways (due to low viscosity of hydrocarbon content).

11.2. Information on other hazard classes which relates to endocrine disrupting properties

Other hazards:	No information on other hazard classes specified.
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Section 12: Ecological information**12.1. Toxicity**

Fish:	Oncorhynchus mykiss: 96hr LC50 = 4.2mg/L
Algae:	Pseudokirchnerella subcapitata: 72hr EC50 = 25mg/L; 72hr EC10/NOEC = 10mg/L
Aquatic invertebrates:	Daphnia magna: 48hr EC50 / LC50 = 4.2mg/L
Microorganisms:	Activated sludge: 28d EC10 / NOEC = 14.2mg/L
Terrestrial arthropods:	No data available (REACH dossier).

12.2. Persistence and degradability

Persistence and degradability:	Litsea Cubeba Oil can be regarded as readily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential:	The Bioaccumulation potential of the whole UVCB can not be assessed, due to the range of log Kow values of the constituents, ranging from below to above the screening criterion of 4.5 (2.06 - 6.30).
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12.4. Mobility in soil

Mobility:	The range of predicted log Koc values is 1.622 to 4.251. This indicates potential for low to strong sorption to soil/sediment, depending on the constituent.
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12.5. Results of PBT and vPvB assessment

PBT identification:	The substance is not PBT/vPvB.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties:	Litsea Cubeba Oil is not on the ED-list (https://edlists.org/the-ed-lists) of endocrine disruptors meaning that it is not a substance identified as an endocrine disruptor at EU level (List I), a substance under evaluation for endocrine disruption under an EU legislation (List II) nor a substance considered, by the evaluating National Authority, to have endocrine disrupting properties (List III).
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12.7. Other adverse effects

Other adverse effects:	None specified (REACH dossier).
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Section 13: Disposal considerations


13.1. Waste treatment methods

Product/packaging disposal:	If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.
Waste treatment – relevant information:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Treat as trade effluent.
Sewage disposal – relevant information:	Waste should not be disposed of by release to sewers.

13.2. Special precautions for landfill and incineration

Special precautions for landfill and incineration:	Waste is suitable for incineration.
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Section 14: Transport information

UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, N.O.S
Transport hazard class(es):	9
Packaging group:	3
Transport labels:	
Environmental hazards:	See Section 2 - IMDG - Marine pollutant
Special precautions for user:	Dangerous Goods Note Tunnel Restriction code: 3 (E)
Maritime transport in bulk according to IMO instruments:	UN 3082 - Transport class 9, packing group 3, marine pollutant

Section 15: Regulatory information

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

Specific regulations:	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716).
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15.2. Chemical Safety Assessment

Chemical safety assessment:	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
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Section 16: Other information
16.1. Other information
Packaging:

Type	Suitability
Glass	Yes
Steel	Yes
Aluminium	Yes
F/HDPE	Yes
Stainless steel drum	Yes

Shelf life:

36 months when stored within advised conditions, re-test every 12 months thereafter for a possible further 24 months.

Other information:

* Indicates text in the SDS which has changed since the last revision.

Legal disclaimer:

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product.

Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all appropriate local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing.

Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary.

All health and safety information contained in this document should be provided to your employees or customers.