

CHEMICAL SAFETY DATA SHEET
according to 1907/2006/EC Article 31, as amended by N°
453/2010

2333202

Reviewed on: 04/12/19
Printing date: 04/12/2019

SECTION 01: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name:
YLANG MADAGASC II ORGANIC OIL
- Article number:
B972
- CAS Number:
8006-81-3
- EC Number:
281-092-1
- No CAS EINECS:
83863-30-3
- Registration number
01-2120760178-50-0001

*

1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance / the preparation
Only for industrial use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GOLGEMMA TEL: +33(0)4.68.74.17.89
Route de FA email: fds@golgemma.com
11260 ESPERAZA
FRANCE

1.4 Emergency telephone number:
FR-ORFILA (INRS):+33(0)1 45 42 59 59

SECTION 02: Hazards identification

2.1 Classification of the substance or mixture

- * • Classification according to Regulation (EC) No 1272/2008



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.

Skin Sens. 1 - H317 May cause an allergic skin reaction.

*

*

*

*

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS08 GHS07

- Signal word
Danger

*

- Hazard statements

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

*

H317 May cause an allergic skin reaction.

*

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

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P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT:
Not applicable.

- vPvB:
Not applicable.

SECTION 03: Composition/information on ingredients

3.1 Chemical characterization: Substances

CAS No.	Description
8006-81-3	Cananga odorata (Lam.) Hook. f. et Thomson, formagenuina

- Identification number(s)
- EC number:
281-092-1

- Dangerous components:

CAS Number		%
87-44-5	beta-Caryophyllene EC number: 201-746-1 ⚠ Asp. Tox. 1 - H304; ⚠ Skin Sens. 1B - H317	10,001-20,00
105-87-3	Geranyl acetate EC number: 203-341-5 ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Chronic 3 - H412	10,001-20,00
120-51-4	Benzyl benzoate EC number: 204-402-9 ⚠ Acute Tox. 4 - H302; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 2 - H411	10,001-20,00
78-70-6	Linalool EC number: 201-134-4 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	5,001-10,00
140-11-4	benzyl acetate EC number: 205-399-7 Aquatic Chronic 3 - H412	5,001-10,00
4602-84-0	Farnesol EC number: 225-004-1 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	1,001- 5,00
104-93-8	p-Methylanisole EC number: 203-253-7 ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315; ⚠ Repr. 2 - H361	1,001- 5,00
118-58-1	Benzyl salicylate ⚠ Skin Sens. 1B - H317; Aquatic Chronic 3 - H412	1,001- 5,00

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93-58-3	methyl benzoate EC number: 202-259-7 ⚠ Acute Tox. 4 - H302	1,001- 5,00
106-24-1	Geraniol EC number: 203-377-1 ⚠ Eye Dam. 1 - H318; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317	1,001- 5,00
470-82-6	Eucalyptol EC number: 207-431-5 ⚠ Flam. Liq. 3 - H226; ⚠ Skin Sens. 1B - H317	0,101-1,00
97-53-0	Eugenol EC number: 202-589-1 ⚠ Eye Irrit. 2 - H319, Skin Sens. 1B - H317	0,101-1,00
1139-30-6	Caryophyllene oxide EC number: 214-519-7 ⚠ Aquatic Chronic 2 - H411	0,101-1,00
7212-44-4	Nerolidol (isomer unspecified) EC number: 230-597-5 ⚠ Skin Sens. 1B - H317; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	0,101-1,00
80-56-8	pin-2(3)-ene EC number: 201-291-9 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1B - H317	0,101-1,00
127-91-3	beta-Pinene EC number: 204-872-5 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317	0,101-1,00
97-54-1	Isoeugenol ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1A - H317	0,101-1,00

SECTION 04: First aid measures

4.1 Description of first aid measures

- General information:
Seek immediate medical advice.
- After inhalation:
Supply fresh air and to be sure call for a doctor.
- After skin contact:
If skin irritation continues, consult a doctor.
* Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:

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- Seek immediate medical advice.
- Information for doctor:

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 05: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents:
CO2, sand, extinguishing powder. Do not use water.
Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:
Water with full jet

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

- Protective equipment:
Do not inhale explosion gases or combustion gases.
- Additional information
Cool endangered receptacles with water spray.

SECTION 06: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
* Inform respective authorities in case of seepage into water course or sewage system.

* 6.3 Methods and material for containment and cleaning up:

* Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 07: Handling and storage

• Handling:

7.1 Precautions for safe handling

Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
* Open and handle receptacle with care.
Handle with care. Avoid jolting, friction and impact.

- Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
* Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/ product.

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- Further information about storage conditions:
Keep container tightly sealed.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.

7.3 Specific end use(s)
No further relevant information available.

SECTION 08: Exposure controls/personal protection

8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:
Not required.

CAS No.	Designation of material	%	Type	Value	Unit
Not required.					

- Additional information:
The lists valid during the making were used as basis.

8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
* Keep away from foodstuffs, beverages and feed.
* Wash hands before breaks and at the end of work.
* Store protective clothing separately.
* Avoid contact with the skin.
- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	liquid sometimes cloudy
Colour:	pale yellow to yellow
Odour:	floral
Odour threshold:	Not determined.

Change in condition

Initial boiling point and boiling range:	Not determined.
Flash point:	78,0 °C NFT 60-103 CC
Flammability (solid, gas):	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Vapour pressure:	Not determined.
Density:	Not determined.
Relative density :	0,9230 0,942 D20/20

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Solubility in / Miscibility with water:	Not determined.
Partition coefficient: n-octanol/water:	Not determined.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
No further relevant information available.
- 10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
Not determined.
- 10.3 Possibility of hazardous reactions
No dangerous reactions known.
- 10.4 Conditions to avoid
No further relevant information available.
- 10.5 Incompatible materials:
No further relevant information available.
- 10.6 Hazardous decomposition products:
Not determined.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
 - Acute toxicity
 - LD/LC50 values relevant for classification:

ISO LD/LC

<ul style="list-style-type: none"> * 8006-81-3 * 87-44-5 * 105-87-3 * 120-51-4 * 78-70-6 * 140-11-4 * 4602-84-0 * 104-93-8 * 93-58-3 * 470-82-6 	<p>Cananga odorata (Lam.) Hook. f. et Thomson, forma genuina Oral, LD50: > 5000 mg/kg (rat) (OECD Guideline 401 (Acute Oral Toxicity)) Dermal, LD50: > 5000 mg/kg (Rabbit) (OECD Guideline 402 (Acute Dermal Toxicity))</p> <p>beta-Caryophyllene Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)</p> <p>Geranyl acetate Oral, LD50: >4000 mg/kg (rat) (NTP 1987)</p> <p>Benzyl benzoate Oral, LD50: 1700 mg/kg (rat) Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979) Dermal, LD50: 4000 mg/kg (Rabbit)</p> <p>Linalool Oral, LD50: 2790 mg/kg (rat) Dermal, LD50: 5610 mg/kg (Rabbit)</p> <p>benzyl acetate Oral, LD50: 2490 mg/kg (rat) (INRS 2011) Dermal, LD50: >5000 mg/kg (Rabbit) (INRS 2011)</p> <p>Farnesol Oral, LD50: 20000 mg/kg (rat) Dermal, LD50: 15000 mg/kg (rat)</p> <p>p-Methylanisole Oral, LD50: 1920 mg/kg (rat)</p> <p>methyl benzoate Oral, LD50: 1177 mg/kg (rat)</p> <p>Eucalyptol</p>
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- * Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)
- * **97-53-0 Eugenol**
- * Oral, LD50: 1930 mg/kg (rat)
- * **1139-30-6 Caryophyllene oxide**
- * Oral, LD50: >5000 mg/kg (rat) (Moreno 1978)
- * **7212-44-4 Nerolidol (isomer unspecified)**
- * Oral, LD50: >5000 mg/kg (rat) (RIFM 1973)
- * Oral, LD50: 9626 mg/kg (mouse) (RIFM 1967)
- * Dermal, LD50: >5000 mg/kg (Rabbit) (RIFM 1973)
- * **97-54-1 Isoeugenol**
- * Oral, LD50: 1560 mg/kg (rat)
- * • Primary irritant effect:
- * • Skin corrosion/irritation
- * **8006-81-3 Cananga odorata (Lam.) Hook. f. et Thomson, forma genuina**
- * Irritation of skin, OECD 439: IRRITANT (in vitro) (OECD Guideline 439 - Read Across from Ylang III)
- * Irritant to skin and mucous membranes.
- * • Serious eye damage/irritation
- * **8006-81-3 Cananga odorata (Lam.) Hook. f. et Thomson, forma genuina**
- * Irritation of eyes, OECD 437 BCOP: NOT CLASSIFIED (in vitro) (OECD Guideline 437 - 2017)
- * **7212-44-4 Nerolidol (isomer unspecified)**
- * Irritation of eyes, OECD 405 DRAIZE: NOT CLASSIFIED (Rabbit) (RIFM 1967)
- * • Respiratory or skin sensitisation
- * **8006-81-3 Cananga odorata (Lam.) Hook. f. et Thomson, forma genuina**
- * Dermal, OECD 429 LLNA: SENSITIZER (mouse) (OECD Guideline 429 - 2006)
- * **120-51-4 Benzyl benzoate**
- * Sensitisation, NESIL: 59000 ug/cm2 (human being) (Standard IFRA)
- * Sensitization possible through skin contact.
- * • Subacute to chronic toxicity:
- * **87-44-5 beta-Caryophyllene**
- * Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)
- * **78-70-6 Linalool**
- * Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)
- * **140-11-4 benzyl acetate**
- * Oral, NOAEL: 14,5 mg/kg (rat) (2 years, NTP 1993)
- * **104-93-8 p-Methylanisole**
- * Oral, NOAEL: 100 mg/kg (rat) (28 days, RIFM 2013)
- * • Germ cell mutagenicity
- * **8006-81-3 Cananga odorata (Lam.) Hook. f. et Thomson, forma genuina**
- * OECD 471 AMES: NEGATIVE (in vitro) (OECD Guideline 471 - 1997)
- * **87-44-5 beta-Caryophyllene**
- * OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
- * **105-87-3 Geranyl acetate**
- * OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987)
- * **120-51-4 Benzyl benzoate**
- * OECD 471 AMES: NEGATIVE (in vitro) (Schunk and al., 1986)
- * **78-70-6 Linalool**
- * OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)
- * **140-11-4 benzyl acetate**
- * OECD 471 AMES: NEGATIVE (in vitro) (Tennant and al., 1987)
- * **104-93-8 p-Methylanisole**
- * OECD 471 AMES: NEGATIVE (in vitro) (RIFM 1984)

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- * **470-82-6 Eucalyptol**
OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
- * **1139-30-6 Caryophyllene oxide**
OECD 471 AMES: NEGATIVE (in vitro) (Richold and al, 1979)
- * **105-87-3 Geranyl acetate**
Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)
- * **78-70-6 Linalool**
Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)
Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- * **104-93-8 p-Methylanisole**
Micronoyau: NEGATIVE (mouse) (RIFM 2018)
- Reproductive toxicity
Not determined.
- STOT-single exposure
Not determined.
- STOT-repeated exposure
Not determined.
- Aspiration hazard
Not determined.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity:

8006-81-3 Cananga odorata (Lam.) Hook. f. et Thomson, forma genuina

- * CE50/48h: 11,2 mg/l (daphnia) (ECD Guideline 202 - 2017)
- * ErC50(0-72h): 100 mg/l (algae) (OECD Guideline 201 - 2018)

78-70-6 Linalool

- * LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991)
- * ErC50(0-72h): 156,7 mg/l (algae)
- * ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202)

140-11-4 benzyl acetate

- * ErC50(0-72h): 92 mg/l (algae) (RIFM 2017)
- * ErC50(0-48h): 37 mg/l (daphnia) (RIFM 2011)
- * 96h-LC50: 4,6 mg/l (fish) (RIFM 1994)

104-93-8 p-Methylanisole

- * CE50/48h: 17 mg/l (daphnia) (RIFM 2018)
- * 96h-LC50: 68,2 mg/l (fish) (RIFM 2018)

12.2 Persistence and degradability

No further relevant information available.

- Behaviour in environmental systems:
Not determined.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

- Ecotoxicological effects:
Not determined.
- Additional ecological information:
- General notes:

- * Harmful to aquatic organisms
- * The material is harmful to the environment.

12.5 Results of PBT and vPvB assessment

- PBT:
Not applicable.
- vPvB:
Not applicable.

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12.6 Other adverse effects
No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation
Must be specially treated adhering to official regulations.
 - Uncleaned packaging:
 - Recommendation:
Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR Void

IMDG Void

IATA Void

14.2 UN proper shipping name

ADR Void

IMDG Void

IATA Void

14.3 Transport hazard class(es)

ADR

Class Void

IMDG

Class Void

IATA

Class Void

14.4 Packing group

ADR Void

IMDG Void

IATA Void

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

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

Not applicable.

- Transport/Additional information:
Not applicable.

SECTION 15: Regulatory information

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

- National regulations:
- Waterhazard class:
Generally not hazardous for water.

15.2 Chemical safety assessment:

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A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document.

The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

- **Relevant phrases**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

- **Training hints**

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.

- **Abbreviations and acronyms:**

IFRA: International Fragrance Association IOFI: International Organization of the Flavor Industry
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organisation
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

- **Sources**

IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information

- * Data compared to the previous version altered.