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CHEMICAL SAFETY DATA SHEET

according to 2020/878/EC (1907/2006/EC Article 31)

1550102

Reviewed on: 20.12.2022 Printing date: 20.12.2022

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

1.1 Product identifier

- Trade name: YLANG COMOROS II OIL
- Article number:

F3315

- CAS Number: 8006-81-3
 - EC Number:
- 281-092-1
- No CAS EINECS:

83863-30-3

Registration number 01-2120768616-42-0000

1.2 Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the preparation

Perfume ingredient

Only for industrial use

- For detailed identified uses please refer to the annex of this safety data sheet
 - 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

BIOLANDES, BP2 TEL: +33(0)5.58.51.00.00

2760 Route de Bélis

40420 LE SEN **FRANCE**

email: fds@biolandes.com

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. 1B - 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.

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P264 Wash thoroughly after handling.

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

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.
- Determination of endocrine-disrupting properties
- Substance is not listed.

SECTION 03: Composition/information on ingredients

3.1 Substances

CAS No. Description

8006-81-3 Cananga odorata (Lam.) Hook.f. & Thomson

- Identification number(s)
- EC number: 281-092-1
- 201 032 1

•	Dangerous	components:
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	CAS Number		%
	87-44-5	beta-Caryophyllene	20,001-50,00
		EC number: 201-746-1	
		🕸 Asp. Tox. 1 - H304; 🔱 Skin Sens.	
		1B - H317	
	120-51-4	Benzyl benzoate	5,001-10,00
		EC number: 204-402-9	
		💠 Acute Tox. 4 - H302; 🄄 Aquatic	
		Acute 1 - H400, Aquatic Chronic 2 - H411	
	140-11-4	benzyl acetate	5,001-10,00
		EC number: 205-399-7	
		Aquatic Chronic 3 - H412	
	78-70-6	Linalool	1,001- 5,00
		EC number: 201-134-4	
		♦ Skin Irrit. 2 - H315, Eye Irrit. 2 -	
		H319, Skin Sens. 1B - H317	
*	118-58-1	benzyl salicylate	1,001- 5,00
*		EC number: 204-262-9	
*		Skin Sens. 1 - H317; Aquatic Chronic 3	
*		- H412	
*	104-93-8	p-Methylanisole	1,001- 5,00
*		EC number: 203-253-7	
*		Acute Tox. 4 - H302, Skin Irrit. 2 -	
*		H315; 🕹 Repr. 2 - H361	
*	4602-84-0	Farnesol	1,001- 5,00
*		EC number: 225-004-1	
*		Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*		H319, Skin Sens. 1B - H317	
*	97-54-1	isoeugenol	1,001- 5,00
*		EC number: 202-590-7	
*		Acute Tox. 4 - H302, Acute Tox. 4 -	
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k		H312, Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*		H319, Skin Sens. 1A - H317;	
*		Skin Sens. 1A; H317: C >= 0,01 %	
*	93-58-3	methyl benzoate	0,101-1,00
*		EC number: 202-259-7	
*		♦ Acute Tox. 4 - H302	
*	4180-23-8	trans-Anethole	0,101-1,00
*		EC number: 224-052-0	
*		♦ Skin Sens. 1B - H317	
*	106-24-1	geraniol	0,101-1,00
*		EC number: 203-377-1	
*		Eye Dam. 1 - H318; \$\frac{1}{2}\$ Skin Irrit. 2	
*		- H315, Skin Sens. 1 - H317	
*	470-82-6	Eucalyptol	0,01-0,100
*		EC number: 207-431-5	
*		🏇 Flam. Liq. 3 - H226; 🕚 Skin Sens.	
*		1B - H317	

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:
- 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.

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SECTION 06: Accidental release measures

(continued of page 3)

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.

Ensure adequate ventilation.

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

7.1 Precautions for safe handling

Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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

• 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.

- Information about storage in one common storage facility:
- Not required.
 - 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. DNFLs

8006-81-3 Cananga odorata (Lam.) Hook.f. & Thomson

Inhalative, DNEL(ShortTerm): 22,24 mg/m3

Dermal, DNEL(long term): 21,12 mg/kg

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

- · Individual protection measures, such as 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.

Immediately remove all soiled and contaminated clothing

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- Wash hands before breaks and at the end of work.
- * Do not inhale gases / fumes / aerosols.
 - Do not inhale dust / smoke / mist. Avoid contact with the skin.
 - Respiratory protection:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
 - 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/face protection Safety glasses

9.1 Information on basic physical and chen	nical proporties
General Information	nical properties
Physical state	Fluid
Colour:	pale yellow
Odour:	ylang
Odour threshold:	Not determined.
Melting point/freezing point:	< -80.0 °C
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	88,0 °C NFT 60-103 CC
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	at 40,00 °C 6,00 mm2/s
Dynamic:	Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	at 25,00 °C 0,2223 mbar
Density and/or relative density	
Density:	Not determined.
Relative density	0,9380 0,9420 D20/20
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	fluid
Important information on protection of hea	lth and environment, and on safety.
Auto-ignition temperature:	Not determined.



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		(continued of)	oage 5)
	Explosive properties:	Not determined.	
	Solvent content:		
*	Solids content:	0,00 %	
	Change in condition		
*	Evaporation rate	Not determined.	
	Information with regard to physical hazard classes		
*	Explosives	not applicable	
*	Flammable gases	not applicable	
*	Aerosols	not applicable	
*	Oxidising gases	not applicable	
*	Gases under pressure	not applicable	
*	Flammable liquids	not applicable	
*	Flammable solids	not applicable	
*	Self-reactive substances and mixtures	not applicable	
*	Pyrophoric liquids	not applicable	
*	Pyrophoric solids	not applicable	
*	Self-heating substances and mixtures	not applicable	
*	Substances and mixtures, which emit	not applicable	
	flammable gases in contact with water		
*	Oxidising liquids	not applicable	
*	Oxidising solids	not applicable	
*	Organic peroxides	not applicable	
*	Corrosive to metals	not applicable	
*	Desensitised explosives	not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available.

- 10.2 Chemical stability
- 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 hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

LD/LC50 values relevant for classification:

ISO LD/LC

8006-81-3 Cananga odorata (Lam.) Hook.f. & Thomson

Oral, LD50: >5000 mg/kg (rat) (similar OECD 401 1973) Dermal, LD50: >5000 mg/kg (Rabbit) (similar OECD 402 1973)

87-44-5 beta-Caryophyllene

Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

120-51-4 Benzyl benzoate

Oral, LD50: 1700 mg/kg (rat)

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Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979) Dermal, LD50: 4000 mg/kg (Rabbit)

140-11-4 benzyl acetate Oral, LD50: 2490 mg/kg (rat) (INRS 2011)

Dermal, LD50: >5000 mg/kg (Rabbit) (INRS 2011)

78-70-6 Linalool Oral, LD50: 2790 mg/kg (rat) Dermal, LD50: 5610 mg/kg (Rabbit)

104-93-8 p-Methylanisole

Oral, LD50: 1920 mg/kg (rat) 4602-84-0 Farnes

4602-84-0 Farnesol Oral, LD50: 20000 mg/kg (rat) Dermal, LD50: 15000 mg/kg (rat)

97-54-1 isoeugenol Oral, LD50: 1560 mg/kg (rat)

93-58-3 methyl benzoate

Oral, LD50: 1177 mg/kg (rat)
470-82-6 Eucalyptol

Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)

• Primary irritant effect:

- Skin corrosion/irritation

Irritant to skin and mucous membranes.

Causes skin irritation.

- Serious eye damage/irritation

No irritating effect.

Respiratory or skin sensitisation

120-51-4 Benzyl benzoate

Sensitisation, NESIL: 59000 ug/cm2 (human being) (Standard IFRA)

Germ cell mutagenicity

8006-81-3 Cananga odorata (Lam.) Hook.f. & Thomson

OECD 471 AMES: NEGATIVE (in vitro) (2017)
OECD 490 MLA: NEGATIVE (in vitro) (L5178Y, 2017)

87-44-5 beta-Caryophyllene

OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)

120-51-4 Benzyl benzoate

OECD 471 AMES: NEGATIVE (in vitro) (Schunk and al., 1986)

140-11-4 benzyl acetate

OECD 471 AMES: NEGATIVE (in vitro) (Tennant and al., 1987)

78-70-6 Linalool

OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)

104-93-8 p-Methylanisole

OECD 471 AMES: NEGATIVE (in vitro) (RIFM 1984)

470-82-6 Eucalyptol

OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)

Carcinogenicity

8006-81-3 Cananga odorata (Lam.) Hook.f. & Thomson

Micronoyau: NEGATIVE (in vitro) (2017)

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

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

Subacute to chronic toxicity:

8006-81-3 Cananga odorata (Lam.) Hook.f. & Thomson

Oral, NOAEL: 718 mg/kg (rat) (OECD 422 2017)

87-44-5 beta-Caryophyllene

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Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)

benzyl acetate

Oral, NOAEL: 14,5 mg/kg (rat) (2 years, NTP 1993)

78-70-6 Linalool

Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al.,

2008)

104-93-8 p-Methylanisole

Oral, NOAEL: 100 mg/kg (rat) (28 days, RIFM 2013)

11.2 Information on other hazards

• Endocrine disrupting properties

Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

· Aquatic toxicity:

8006-81-3 Cananga odorata (Lam.) Hook.f. & Thomson

CE50/48h: 10,4 mg/l (daphnia) (OECD 202 2018)

ErcS0(0-72h): >100 mg/l (algae) (readcross OECD 201 2018) 96h-LC50: 32 mg/l (fish) (readcross OECD 203 2018)

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)

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)

D4-93-8 p-Methylanisole CE50/48h: 17 mg/l (daphnia) (RIFM 2018)

96h-LC50: 68,2 mg/l (fish) (RIFM 2018)

12.2 Persistence and degradability

Cananga odorata (Lam.) Hook.f. & Thomson

OECD 301: 86 % (in vitro) (301D 28 days, 2017)

Easily biodegradable

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.

12.5 Results of PBT and vPvB assessment

• PBT:

Not applicable.

vPvB:

Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.6 Other adverse effects

No further relevant information available.

- Ecotoxical effects:
- Not determined.
- Remark:
- Harmful to fish
- Additional ecological information:
- General notes:

Harmful to aquatic organisms

The material is harmful to the environment.

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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 or ID number Void IMDG Void IATA Void 14.2 UN proper shipping name

ADR Void
IMDG Void
IATA Void
14.3 Transport hazard class(es)

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ADR

Class Void

IMDG

Class Void IATA

AIA

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 Maritime transport in bulk according to IMO instruments

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
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II
- Substance is not listed.
 - REGULATION (EU) 2019/1148
 - Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- Substance is not listed.
 - Annex II REPORTABLE EXPLOSIVES PRECURSORS
 - Substance is not listed.
 - Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
 - Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

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· National regulations:

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- J
- Technical instructions (air):
- Class Share in %

· Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

- * 15.2 Chemical safety assessment:
- * A Chemical Safety Assessment has 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.

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 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) 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) 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 IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation DOT: US Department of Transportation

IATA: International Air Transport Association IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation ICAO: International Civil Aviation Organisation GHS: Globally Harmonised System of Classification and Labelling of Chemicals GHS: Globally Harmonised System of

Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing

Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH) DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative vPvB: very Persistent and very Bioaccumulative

CE50: effective concentration at 50% ErC50:concentration of test substance which results in a 50 percent reduction in either growth rate (ErC50)relative to the control within 72hrs exposure.

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- Sources IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information
- * Data compared to the previous version altered.