

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

2232602

Reviewed on: 10/11/20
Printing date: 12/11/2020

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

1.1 Product identifier

- Trade name:
YLANG COMOROS EXTRA ORG OIL
- Article number:
B3350
- 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 email: fds@biolandes.com
40420 LE SEN
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. 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.

- Precautionary statements

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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.
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. & Thomson

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

- Dangerous components:

CAS Number		%
140-11-4	benzyl acetate EC number: 205-399-7 Aquatic Chronic 3 - H412	10,001-20,00
* 18794-84-8	* beta-Farnesene * EC number: 242-582-0 *  Asp. Tox. 1 - H304	10,001-20,00
* 104-93-8	* p-Methylanisole * EC number: 203-253-7 *  Acute Tox. 4 - H302, Skin Irrit. 2 - * H315;  Repr. 2 - H361	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	5,001-10,00
* 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
* 93-58-3	* methyl benzoate * EC number: 202-259-7 *  Acute Tox. 4 - H302	5,001-10,00
* 105-87-3	* Geranyl acetate * EC number: 203-341-5 *  Skin Irrit. 2 - H315, Skin Sens. 1B - * H317; Aquatic Chronic 3 - H412	5,001-10,00
* 87-44-5	* beta-Caryophyllene * EC number: 201-746-1 *  Asp. Tox. 1 - H304;  Skin Sens.	1,001- 5,00

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*		1B - H317	
	118-58-1	Benzyl salicylate	1,001- 5,00
*		EC number: 204-262-9	
*		⚠ Skin Sens. 1B - H317; Aquatic Chronic	
*		3 - H412	
*	97-54-1	Isoeugenol	1,001- 5,00
*		⚠ Acute Tox. 4 - H302, Acute Tox. 4 -	
*		H312, Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*		H319, Skin Sens. 1A - H317	
*	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	
*	106-24-1	Geraniol	0,101-1,00
*		EC number: 203-377-1	
*		⚠ Eye Dam. 1 - H318; ⚠ Skin Irrit. 2	
*		- H315, Skin Sens. 1B - H317	
*	104-46-1	Anethole (isomer unspecified)	0,101-1,00
*		EC number: 203-205-5	
*		⚠ Skin Sens. 1B - H317	
*	80-56-8	pin-2(3)-ene	0,101-1,00
*		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	
*	470-82-6	Eucalyptol	0,101-1,00
*		EC number: 207-431-5	
*		⚠ Flam. Liq. 3 - H226; ⚠ Skin Sens.	
*		1B - H317	
*	119-36-8	methyl salicylate	0,101-1,00
*		EC number: 204-317-7	
*		⚠ Acute Tox. 4 - H302, Skin Sens. 1B -	
*		H317; Aquatic Chronic 3 - H412	

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

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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.
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

• 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.
- * 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

- 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.
- * Further information about storage conditions:
- * Keep container tightly sealed.
Protect from heat and direct sunlight.

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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
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Not required.

- DNELs

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

- 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
 - * 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 protection: Safety glasses

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	fluid
Colour:	pale yellow to yellow
Odour:	floral
Odour threshold:	Not determined.

Change in condition

* Melting point/freezing point:	< -80,0 °C
Initial boiling point and boiling range:	Not determined.
* Flash point:	88,0 °C NFT 60-103 CC
Flammability (solid, gas):	Not determined.
* Auto-ignition temperature:	Not determined.

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Explosive properties:	Not determined.
Vapour pressure:	0,2223 mbar
Density:	Not determined.
Relative density :	0,9550 0,9760 D20/20
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

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)

* **140-11-4 benzyl acetate**

Oral, LD50: 2490 mg/kg (rat) (INRS 2011)
Dermal, LD50: >5000 mg/kg (Rabbit) (INRS 2011)

* **104-93-8 p-Methylanisole**

Oral, LD50: 1920 mg/kg (rat)

* **120-51-4 Benzyl benzoate**

Oral, LD50: 1700 mg/kg (rat)
Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979)
Dermal, LD50: 4000 mg/kg (Rabbit)

* **78-70-6 Linalool**

Oral, LD50: 2790 mg/kg (rat)
Dermal, LD50: 5610 mg/kg (Rabbit)

* **93-58-3 methyl benzoate**

Oral, LD50: 1177 mg/kg (rat)

* **105-87-3 Geranyl acetate**

Oral, LD50: >4000 mg/kg (rat) (NTP 1987)

* **87-44-5 beta-Caryophyllene**

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

* **97-54-1 Isoeugenol**

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- * Oral, LD50: 1560 mg/kg (rat)
- * **4602-84-0 Farnesol**
- * Oral, LD50: 20000 mg/kg (rat)
- * Dermal, LD50: 15000 mg/kg (rat)
- * **104-46-1 Anethole (isomer unspecified)**
- * Oral, LD50: 2090 mg/kg (rat)
- * Dermal, LD50: >5000 mg/kg (Rabbit)
- * **470-82-6 Eucalyptol**
- * Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)
- * **119-36-8 methyl salicylate**
- * Oral, LD50: 887 mg/kg (rat)
- * • Primary irritant effect:
- * • Skin corrosion/irritation
Irritant to skin and mucous membranes.
- * • 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)
- * • Subacute to chronic toxicity:
- * **8006-81-3 Cananga odorata (Lam.) Hook.f. & Thomson**
- * Oral, NOAEL: 718 mg/kg (rat) (OECD 422 2017)
- * **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)
- * **78-70-6 Linalool**
- * Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)
- * **87-44-5 beta-Caryophyllene**
- * Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)
- * • Additional toxicological information:
MLA OECD 490 2017 in vitro
Ames OECD 471 2017 in vitro
Micronucleus OECD 487 2017 in vitro
- * • Germ cell mutagenicity
- * **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)
- * **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)
- * **105-87-3 Geranyl acetate**
- * OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987)
- * **87-44-5 beta-Caryophyllene**
- * OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
- * **470-82-6 Eucalyptol**
- * OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
- * • Carcinogenicity
- * **104-93-8 p-Methylanisole**
- * Micronoyau: NEGATIVE (mouse) (RIFM 2018)
- * **78-70-6 Linalool**
- * Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)
- * Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- * **105-87-3 Geranyl acetate**
- * Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)
- * • Reproductive toxicity
Not determined.
- * • STOT-single exposure

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- * Not determined.
- *
 - STOT-repeated exposure
- * Not determined.
- *
 - Aspiration hazard
- * May be fatal if swallowed and enters airways.

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)
ErC50(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)

* **104-93-8 p-Methylanisole**

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

* 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.

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.

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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:
* 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.

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