

1679805

Reviewed on: 15.06.2023  
Printing date: 21.06.2023

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

### 1.1 Product identifier

- Trade name:  
YLANG MADA COMPLETE ORG OIL
- Article number:  
N1450
- 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

Flavouring agent

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.

H412 Harmful to aquatic life with long lasting effects.

- 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.
- 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

- Dangerous components:

CAS Number		%
<b>87-44-5</b>	<b>beta-Caryophyllene</b> EC number: 201-746-1 ⚠ Asp. Tox. 1 - H304; ⚠ Skin Sens. 1B - H317	<b>10,001-20,00</b>
<b>78-70-6</b>	<b>LINALOOL</b> EC number: 201-134-4 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>5,001-10,00</b>
<b>105-87-3</b>	<b>Geranyl acetate</b> EC number: 203-341-5 ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Chronic 3 - H412	<b>5,001-10,00</b>
<b>120-51-4</b>	<b>Benzyl benzoate</b> EC number: 204-402-9 ⚠ Acute Tox. 4 - H302; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 2 - H411	<b>5,001-10,00</b>
<b>104-93-8</b>	<b>p-Methylanisole</b> EC number: 203-253-7 ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315; ⚠ Repr. 2 - H361	<b>1,001- 5,00</b>
<b>118-58-1</b>	<b>benzyl salicylate</b> EC number: 204-262-9 ⚠ Skin Sens. 1 - H317; Aquatic Chronic 3 - H412	<b>1,001- 5,00</b>
<b>140-11-4</b>	<b>benzyl acetate</b> EC number: 205-399-7 Aquatic Chronic 3 - H412	<b>1,001- 5,00</b>
<b>4602-84-0</b>	<b>Farnesol</b> EC number: 225-004-1	<b>1,001- 5,00</b>

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106-24-1	<p>⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317</p> <p><b>geraniol</b></p> <p>EC number: 203-377-1</p> <p>⚠ Eye Dam. 1 - H318; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1 - H317</p>	1,001- 5,00
93-58-3	<p><b>methyl benzoate</b></p> <p>EC number: 202-259-7</p> <p>⚠ Acute Tox. 4 - H302</p>	1,001- 5,00
97-53-0	<p><b>Eugenol</b></p> <p>EC number: 202-589-1</p> <p>⚠ Eye Irrit. 2 - H319, Skin Sens. 1B - H317</p>	0,101-1,00
97-54-1	<p><b>isoeugenol</b></p> <p>EC number: 202-590-7</p> <p>⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1A - H317; Skin Sens. 1A; H317: C &gt;= 0,01 %</p>	0,101-1,00
80-56-8	<p><b>pin-2(3)-ene</b></p> <p>EC number: 201-291-9</p> <p>⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1B - H317</p>	0,101-1,00
119-36-8	<p><b>methyl salicylate</b></p> <p>EC number: 204-317-7</p> <p>⚠ Acute Tox. 4 - H302, Skin Sens. 1B - H317; ⚠ Repr. 2 - H361d; Aquatic Chronic 3 - H412</p> <p>Oral: ATE = 890 mg/kg</p>	0,101-1,00
470-82-6	<p><b>Eucalyptol</b></p> <p>EC number: 207-431-5</p> <p>⚠ Flam. Liq. 3 - H226; ⚠ Skin Sens. 1B - H317</p>	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:  
Seek immediate medical advice.
- Information for doctor:

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

No further relevant information available.

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

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### SECTION 05: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing agents:  
CO<sub>2</sub>, 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

#### 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.
- 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.

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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.
- DNELs

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

Inhalative, DNEL(ShortTerm): 22,24 mg/m<sup>3</sup>

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  
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:  
Use suitable respiratory protective device in case of insufficient ventilation.  
\* Filter P3  
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.
- 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
- \* • Body protection:
- \* Impervious protective clothing
- \* Boots

## SECTION 09: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Physical state</b>	Fluid
<b>Colour:</b>	colourless to light yellow
<b>Odour:</b>	floral
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	< -80,0 °C
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	Not determined.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.

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	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    20,00 °C        21,3700 mbar
	Density and/or relative density	
	Density:	Not determined.
*	Relative density	0,9150 - 0,9300 (D20/20)
	Vapour density	Not determined.
	9.2 Other information	No further relevant information available.
	Appearance:	
	Form:	fluid
	<b>Important information on protection of health and environment, and on safety.</b>	
	Auto-ignition temperature:	Not determined.
	Explosive properties:	Not determined.
	Solvent content:	
	Solids content:	0,00 %
	Change in condition	
	Evaporation rate	Not determined.
	<b>Information with regard to physical hazard classes</b>	
	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 flammable gases in contact with water	not applicable
	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

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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)

\*

**78-70-6 LINALOOL**

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

**105-87-3 Geranyl acetate**

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

**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)

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

Oral, LD50: 1920 mg/kg (rat)

**140-11-4 benzyl acetate**

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

**4602-84-0 Farnesol**

Oral, LD50: 20000 mg/kg (rat)  
Dermal, LD50: 15000 mg/kg (rat)

**93-58-3 methyl benzoate**

Oral, LD50: 1177 mg/kg (rat)

**97-53-0 Eugenol**

Oral, LD50: 1930 mg/kg (rat)

**97-54-1 isoeugenol**

Oral, LD50: 1560 mg/kg (rat)

**119-36-8 methyl salicylate**

Oral, LD50: 890 mg/kg (ATE)  
Oral, LD50: 887 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/cm<sup>2</sup> (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) (2017)

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- 87-44-5 beta-Caryophyllene**  
OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
- \* **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)
- 120-51-4 Benzyl benzoate**  
OECD 471 AMES: NEGATIVE (in vitro) (Schunk and al., 1986)
- 104-93-8 p-Methylanisole**  
OECD 471 AMES: NEGATIVE (in vitro) (RIFM 1984)
- 140-11-4 benzyl acetate**  
OECD 471 AMES: NEGATIVE (in vitro) (Tennant and al., 1987)
- 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)
- 105-87-3 Geranyl acetate**  
Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)
- 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**  
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)
- 104-93-8 p-Methylanisole**  
Oral, NOAEL: 100 mg/kg (rat) (28 days, RIFM 2013)
- 140-11-4 benzyl acetate**  
Oral, NOAEL: 14,5 mg/kg (rat) (2 years, NTP 1993)
- 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)  
ErC50(0-72h): >100 mg/l (algae) (readcross OECD 201 2018)  
96h-LC50: 32 mg/l (fish) (readcross OECD 203 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)
- 104-93-8 p-Methylanisole**  
CE50/48h: 17 mg/l (daphnia) (RIFM 2018)

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

**12.2 Persistence and degradability**
**8006-81-3 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.

- Ecotoxicological effects:  
Not determined.
- Remark:  
Harmful to fish
- Additional ecological information:
- General notes:  
Harmful to aquatic organisms  
The material is harmful to the environment.

**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**

- |   |               |                |
|---|---------------|----------------|
| * | . <b>ADR</b>  | Not classified |
| * | . <b>IMDG</b> | Not classified |
| * | . <b>IATA</b> | Not classified |

**14.2 UN proper shipping name**

- |   |               |                |
|---|---------------|----------------|
| * | . <b>ADR</b>  | Not classified |
| * | . <b>IMDG</b> | Not classified |
| * | . <b>IATA</b> | Not classified |

**14.3 Transport hazard class(es)**

- |   |                |                |
|---|----------------|----------------|
| * | . <b>ADR</b>   |                |
| * | . <b>Class</b> | Not classified |
| * | . <b>IMDG</b>  |                |
| * | . <b>Class</b> | Not classified |

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- |  |   |
|--|---|
| <p>* . <b>IATA</b></p> <p>* . <b>Class</b></p> <p>14.4 Packing group</p> <p>* . <b>ADR</b></p> <p>* . <b>IMDG</b></p> <p>* . <b>IATA</b></p> | <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> |
|--|---|

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.

### 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.
  - National regulations:
  - Technical instructions (air):
  - Class Share in %  
I 0,04
  - 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.

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H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging 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.

- \* • Date of previous version:  
06.02.2023

- \* • Version number of previous version:  
3.00

- 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.