



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

2243402

Reviewed on: 19.12.2022 Printing date: 19.12.2022

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

#### 1.1 Product identifier

- Trade name: LAVENDER ORGANIC OIL
- Article number:
- B0760
- CAS Number: 8000-28-0
- EC Number:
- 289-995-2 No CAS EINECS:
- 90063-37-9
- Registration number 01-2120746582-51-0001
- 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

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

Eye Irrit. 2 - H319 Causes serious eye 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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains \$. May produce an allergic 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.
- Determination of endocrine-disrupting properties Substance is not listed.

# SECTION 03: Composition/information on ingredients

#### 3.1 Substances

#### CAS No. Description

8000-28-0 Lavandula angustifolia Miller (Syn Lavandula officinalis Chaix)

- Identification number(s)
- EC number: 289-995-2
- Dangerous components:

CAS Number		%
78-70-6	Linalool	20,001-50,00
	EC number: 201-134-4	
	♦ Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1B - H317	
115-95-7	Linalyl acetate	20,001-50,00
	EC number: 204-116-4	
	🕩 Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1 - H317	
87-44-5	beta-Caryophyllene	1,001- 5,00
	EC number: 201-746-1	
	Asp. Tox. 1 - H304;  Skin Sens.	
	1B - H317	
3338-55-4	cis-beta-Ocimene	1,001- 5,00
	EC number: 222-081-3	
	Asp. Tox. 1 - H304;  Flam. Liq. 3	
	- H226	
13877-91-3	3,7-Dimethyl-1,3,6-octatriene	1,001- 5,00
	EC number: 237-641-2	
	🕸 Asp. Tox. 1 - H304; 🚸 Flam. Liq. 3	
	- H226; 💠 Skin Irrit. 2 - H315	
98-55-5	p-menth-1-en-8-ol	1,001- 5,00
	EC number: 202-680-6	
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319	
470-82-6	Eucalyptol	0,101-1,00
	EC number: 207-431-5	
	🚸 Flam. Liq. 3 - H226; 🕚 Skin Sens.	
	1B - H317	
105-87-3	Geranyl acetate	0,101-1,00
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PRODUCT :	LAVENDER ORGANIC OIL	
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	EC number: 203-341-5  Skin Irrit. 2 - H315, Skin Sens. 1B -	
106-24-1	H317; Aquatic Chronic 3 - H412 geraniol	0,101-1,00
	EC number: 203-377-1	
5989-27-5	- H315, Skin Sens. 1 - H317 d-limonene	0.404.4.00
5989-27-5	d-ilmonene EC number: 227-813-5 <b>♦</b> Asp. Tox. 1 - H304; ♦ Flam. Liq. 3	0,101-1,00
	- H226; 🕚 Skin Irrit. 2 - H315, Skin Sens. 1B - H317; 🥸 Aquatic Acute 1 -	
80-56-8	H400; Aquatic Chronic 3 - H412 pin-2(3)-ene	0,101-1,00
	EC number: 201-291-9	
	- H226;	
586-62-9	Irrit. 2 - H315, Skin Sens. 1B - H317 Terpinolene	0,101-1,00
	EC number: 209-578-0	
	1B - H317; 🤄 Aquatic Acute 1 - H400,	
	Aquatic Chronic 1 - H410	

# 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.
- 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:
- $4.2\ \mbox{Most}$  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.

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#### **PRODUCT:** LAVENDER ORGANIC OIL

#### 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.

#### 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.
- Additional information:

The lists valid during the making were used as basis.

#### 8.2 Exposure controls

Individual protection measures, such as personal protective equipment

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• 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.

Do not inhale gases / fumes / aerosols.

Do not inhale dust / smoke / mist. Avoid contact with the eyes.

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

Eye/face protection Safety glasses

#### SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chem	nical properties
General Information	
Physical state	Fluid
Colour:	colourless to light yellow
Odour:	lavender
Odour threshold:	Not determined.
Melting point/freezing point:	< -20,0 °C
Boiling point or initial boiling point and boiling range	172,0 °C
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	78,0 °C NFT 60-103 CC
Decomposition temperature:	Not determined.
рН	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:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	0,8790 0,8890 D20/20
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	fluid
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Important information on protection of health and environment, and on safety.  Auto-ignition temperature:  Not determined.  Explosive properties:  Not determined.	
Explosive properties: Not determined.  Solvent content:	
Solvent content:	
<b>6 11.1 1. 1. 1. 1. 1. 1. </b>	
Solids content: 0,00 %	
Change in condition	
Evaporation rate Not determined.	
Information with regard to physical hazard classes	
<b>Explosives</b> 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

8000-28-0 Lavandula angustifolia Miller (Syn Lavandula

officinalis Chaix)

Oral, LD50: >5000 mg/kg (rat) (OECD  $\stackrel{\cdot}{4}$ 01)

78-70-6 Linalool

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

87-44-5 beta-Caryophyllene

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

98-55-5 p-menth-1-en-8-ol

Oral, LD50: 4300 mg/kg (rat) 470-82-6 Eucalyptol

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

105-87-3 Geranyl acetate Oral, LD50: >4000 mg/kg (rat) (NTP 1987) 5989-27-5 (R)-p-mentha-1,8-diene

Oral, LD50: 4400 mg/kg (rat) • Primary irritant effect: - Skin corrosion/irritation

8000-28-0 Lavandula angustifolia Miller (Syn Lavandula

officinalis Chaix)

Irritation of skin, OECD 439: NOT CLASSIFIED (in vitro) (Episkin, 2016)

Serious eye damage/irritation

8000-28-0 Lavandula angustifolia Miller (Syn Lavandula

officinalis Chaix)

Irritation of eyes, OECD 492: IRRITANT (in vitro) (Epiocular, 2016)

Irritating effect.

Causes serious eye irritation.

Respiratory or skin sensitisation No sensitizing effects known.

Germ cell mutagenicity

8000-28-0 Lavandula angustifolia Miller (Syn Lavandula

officinalis Chaix)

OECD 471 AMES: NEGATIVE (in vitro) (2014)

78-70-6 Linalool

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

115-95-7 Linalyl acetate

OECD 471 AMES: NEGATIVE (in vitro) (RIFM 1989)

87-44-5 beta-Caryophyllene

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

Eucalyptol 470-82-6

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

105-87-3 Geranyl acetate

OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987)

Carcinogenicity

78-70-6 Linalool

Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007) Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)

Geranyl acetate

Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)

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:

78-70-6 Linalool

Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)

115-95-7 Linalyl acetate

Oral, NOAEL: 250 mg/kg (rat) (90days, RIFM 1980)

beta-Caryophyllene

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

11.2 Information on other hazards

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## PRODUCT: LAVENDER ORGANIC OIL

• Endocrine disrupting properties Substance is not listed. (continued of page 7)

#### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity:

8000-28-0 Lavandula angustifolia Miller (Syn Lavandula

officinalis Chaix)

CE50/48h: 21,955 mg/l (daphnia) (OECD 202) ErC50(0-72h): 13 mg/l (algae) (OECD 201)

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)

115-95-7 Linalyl acetate

ErC50(0-72h): 9,6 mg/l (algae) (RIFM 2015) ErC50(0-48h): 15 mg/l (daphnia) (RIFM 2015) 96h-LC50: 11 mg/l (fish) (RIFM 1998)

5989-27-5 (R)-p-mentha-1,8-diene

LD50: 0,71 mg/l (fish) (OECD 203)

#### 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.

#### 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.

#### 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 or ID number **ADR** Void **IMDG** Void IATA Void 14.2 UN proper shipping name Void ADR **IMDG** Void **IATA** Void 14.3 Transport hazard class(es)

ADR

Void Class **IMDG** 

Class Void IATA Void

Class

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.
- National regulations:
- Technical instructions (air):
- Class Share in % 0,29
- Waterhazard class:

Water hazard class 1 (Self-assessment): slightly 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.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H400	Very toxic to aquatic life.	
H410	Very 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)

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.

#### Sources

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

• \* Data compared to the previous version altered.