

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

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

### 1.1 Product identifier

- Trade name:  
LAVANDIN COLOURLESS
- Article number:  
P82083202000
- CAS Number:  
8022-15-9
- EC Number:  
294-470-6
- No CAS EINECS:  
91722-69-9
- Registration number  
01-2120736147-55-0001

### 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

### 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



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



GHS07

- Signal word  
Warning

- Hazard statements

- \* H317 May cause an allergic skin reaction.
- \* H319 Causes serious eye irritation.
- \* 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.
- \* P273 Avoid release to the environment.
- \* P302+P352 IF ON SKIN: Wash with plenty of water.
- \* P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

### 2.3 Other hazards

- Results of PBT and vPvB assessment

(continued on page 2)

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**

(continued of page 1)

- 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	
8022-15-9	Lavandula × intermedia Emeric ex Loisel. (Syn Lavandula hybrida Reverchon / Lavandula x burnatii Briquet)	
	<ul style="list-style-type: none"> <li>• Identification number(s)</li> <li>• EC number: 294-470-6</li> <li>• Dangerous components:</li> </ul>	
CAS Number		%
* 78-70-6	<b>LINALOOL</b> EC number: 201-134-4 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	20,001-50,00
* 76-22-2	<b>CAMPHOR</b> EC number: 200-945-0 ⚠ Flam. Sol. 2 - H228; ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H332; ⚠ STOT SE 2 - H371	5,001-10,00
470-82-6	<b>Eucalyptol</b> EC number: 207-431-5 ⚠ Flam. Liq. 3 - H226; ⚠ Skin Sens. 1B - H317	5,001-10,00
* 91-64-5	<b>COUMARIN</b> EC number: 202-086-7 ⚠ Acute Tox. 4 - H302, Skin Sens. 1B - H317; Aquatic Chronic 3 - H412	1,001- 5,000
* 106-24-1	<b>GERANIOL</b> EC number: 203-377-1 ⚠ Eye Dam. 1 - H318; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1 - H317	1,001- 5,000
* 5989-27-5	<b>d-limonene</b> EC number: 227-813-5 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317; ⚠ Aquatic Acute 1 - H400 (M=1); Aquatic Chronic 3 - H412	0,101-1,000
* 5392-40-5	<b>CITRAL</b> EC number: 226-394-6 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	0,101-1,000
* 2442-10-6	<b>1-Octen-3-yl acetate</b> EC number: 219-474-7	0,101-1,000


(continued on page 3)

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**

*(continued of page 2)*

 Acute Tox. 4 - H302, 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 rinse with water.
- 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:  
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.

EU

*(continued on page 4)*

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**

*(continued of page 3)*

### 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
- 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:  
Use suitable respiratory protective device in case of insufficient ventilation.  
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

EU

*(continued on page 5)*

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**

(continued of page 4)

### SECTION 09: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

Physical state	Fluid
Colour:	pale yellow
Odour:	lavandin, agrestic
Odour threshold:	Not determined.
Melting point/freezing point:	< -20,0 °C
Boiling point or initial boiling point and boiling range	141,5 °C
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	80,0 °C    NFT 60-103 CC
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
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	0,8840 0,9040 D20/20
Vapour density	Not determined.

#### 9.2 Other information

No further relevant information available.

##### Appearance:

Form: fluid

#### Important information on protection of health and environment, and on safety.

Auto-ignition temperature: Not determined.

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

(continued on page 6)

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**

(continued of page 5)

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**

**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

**8022-15-9 Lavandula × intermedia Emeric ex Loisel. (Syn Lavandula hybrida Reverchon / Lavandula x burnatii Briquet)**

Oral, LD50: >5000 mg/kg (rat) (1973)

Dermal, LD50: >5000 mg/kg (rat) (1973)

\* **78-70-6 LINALOOL**

Oral, LD50: 2790 mg/kg (rat)

Dermal, LD50: 5610 mg/kg (Rabbit)

\* **76-22-2 CAMPHOR**

Oral, LD50: >5000 mg/kg (rat) (Opdyke 1978)

Dermal, LD50: >1000 mg/kg (mouse) (NTP 1998)

**470-82-6 Eucalyptol**

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

\* **91-64-5 COUMARIN**

Oral, LD50: 293 mg/kg (rat)

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

Oral, LD50: 4400 mg/kg (rat)

\* **5392-40-5 CITRAL**

Oral, LD50: 4960 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation  
No irritant effect.
- Serious eye damage/irritation

**8022-15-9 Lavandula × intermedia Emeric ex Loisel. (Syn Lavandula hybrida Reverchon / Lavandula x burnatii Briquet)**

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

(continued on page 7)

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**

(continued of page 6)

- \* Irritating effect.
- \* Causes serious eye irritation.
- Respiratory or skin sensitisation
- 2442-10-6 1-Octen-3-yl acetate**  
Dermal, OECD 429 LLNA: SENSITIZER (mouse) (EC3 > 7500, IFRA STANDARD 2009)  
Sensitisation, NESIL: 3500 ug/cm2 (mouse) (IFRA 2009)
- Germ cell mutagenicity
- 8022-15-9 Lavandula × intermedia Emeric ex Loisel. (Syn Lavandula hybrida Reverchon / Lavandula x burnatii Briquet)**  
OECD 471 AMES: NEGATIVE (in vitro) (2014)
- \* **78-70-6 LINALOOL**  
OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)
- \* **76-22-2 CAMPHOR**  
OECD 471 AMES: NEGATIVE (in vitro) (Anderson and Styles 1978)
- 470-82-6 Eucalyptol**  
OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
- Carcinogenicity
- \* **78-70-6 LINALOOL**  
Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)  
Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- \* **76-22-2 CAMPHOR**  
Micronoyau: NEGATIVE (mouse) (NTP 1999)
- \* **91-64-5 COUMARIN**  
Micronoyau: NEGATIVE (in vitro) (RIFM 2019)
- 2442-10-6 1-Octen-3-yl acetate**  
Micronoyau: NEGATIVE (in vitro) (RIFM 2014)
- Reproductive toxicity  
Not determined.
- STOT-single exposure  
Not determined.
- STOT-repeated exposure  
Not determined.
- Aspiration hazard  
Not determined.
- Subacute to chronic toxicity:
- \* **78-70-6 LINALOOL**  
Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)
- \* **76-22-2 CAMPHOR**  
Oral, NOAEL: >800 mg/kg (rat) (fetal toxicity GD 6 to 15, NTP 1992)
- \* **91-64-5 COUMARIN**  
Oral, NOAEL: 75 mg/kg (rat) (13 weeks, NTP 1993)
- 11.2 Information on other hazards
- Endocrine disrupting properties  
Substance is not listed.

**SECTION 12: Ecological information**

- 12.1 Toxicity
  - Aquatic toxicity:
  - 8022-15-9 Lavandula × intermedia Emeric ex Loisel. (Syn Lavandula hybrida Reverchon / Lavandula x burnatii Briquet)**  
CE50/48h: 14 mg/l (daphnia) (OECD 202)  
ErC50(0-72h): 21 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)
  - \* **76-22-2 CAMPHOR**  
CE50/48h: 26,82 mg/l (daphnia)

(continued on page 8)

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**

(continued of page 7)

- ErC50(0-72h): 23,8 mg/l (algae)
- \* **91-64-5 COUMARIN**  
CE50/48h: 30 mg/l (daphnia) (RIFM 2019)
- 5989-27-5 (R)-p-mentha-1,8-diene**  
LD50: 0,71 mg/l (fish) (OECD 203)
- 12.2 Persistence and degradability
- 8022-15-9 Lavandula × intermedia Emeric ex Loisel. (Syn Lavandula hybrida Reverchon / Lavandula x burnatii Briquet)**  
OECD 301: 90 % (in vitro) (301C 28 days, 1996)  
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
- \* **ADR** Not classified
  - \* **IMDG** Not classified
  - \* **IATA** Not classified
- 14.2 UN proper shipping name
- \* **ADR** Not classified
  - \* **IMDG** Not classified
  - \* **IATA** Not classified
- 14.3 Transport hazard class(es)
- \* **ADR**

(continued on page 9)



1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**

*(continued of page 8)*

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

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            9,00  |

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

15.2 Chemical safety assessment:  
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.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

*(continued on page 10)*

# CHEMICAL SAFETY DATA SHEET

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

1648003

Reviewed on: 26.10.2023  
Printing date: 27.10.2023

**PRODUCT : LAVANDIN COLOURLESS**
*(continued of page 9)*

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
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:  
\* 19.12.2022
- \* • Version number of previous version:  
\* 1.00
- 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)  
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.