BIOLANDES

Safety Data Sheet

according to 29 CFR 1910.1200

1692303

Reviewed on: 02.16.2023
Printing date: 02.28.2023

01 Identification

1.1 Product identifier

- Trade name:
  LAVENDER FINE OIL
- Article number:
  F7430
- CAS Number:
  8000-28-0
- EC Number:
  289-995-2

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
  2760 Route de Bélis
  40420 LE SEN
  FRANCE
  TEL: +33(0)5.58.51.00.00
  email: fds@biolandes.com

1.4 Emergency telephone number:

FR-ORFILA (INRS):+33(0)1 45 42 59 59

02 Hazard(s) identification

2.1 Classification of the substance or mixture

GHS08

Aspiration Hazard 1 - H304 May be fatal if swallowed and enters airways.

GHS07

Eye Irritation 2A - H319 Causes serious eye irritation.
Sensitization - Skin 1B - H317 May cause an allergic skin reaction.
H227 Combustible liquid.
H402 Harmful to aquatic life.
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

- GHS label elements
- Hazard pictograms

GHS08 GHS07

- Signal word
  Danger
- Hazard statements
  H227 Combustible liquid.
  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.
- Precautionary statements
  P210 Keep away from flames and hot surfaces. No smoking.
  P261 Avoid breathing dust/fume/gas/mist/vapors/spray
  P264 Wash thoroughly after handling.
  P301+P310 If swallowed: Immediately call a poison center/doctor.

(Contd. on page 2)

BIOLANDES

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PRODUCT : LAVENDER FINE OIL

(Contd. of page 1)

P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

03 Composition/information on ingredients

3.1 Chemical characterization: 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		%
	115-95-7	**acetate linalyle**	**20,001-50,00**
		EC Number: 204-116-4	
*	**78-70-6**	**LINALOOL**	**20,001-50,00**
		EC Number: 201-134-4	
*	**562-74-3**	**p-menth-1-ene-4-ol (4-terpineol)**	**1,001- 5,00**
		EC Number: 209-235-5	
*	**87-44-5**	**caryophyllene**	**1,001- 5,00**
*		**EC Number: 201-746-1**	
*	**13877-91-3**	**3,7-dimethylocta-1,3,6-triene (ocimene beta)**	**1,001- 5,00**
*		**EC Number: 237-641-2**	
*	**470-82-6**	**Eucalyptol**	**1,001- 5,00**
*		**EC Number: 207-431-5**	
*	**2442-10-6**	**oct-1-en-3-nyl acetate**	**0,101-1,00**
*		**EC Number: 219-474-7**	
*	**105-87-3**	**geranyl acetate**	**0,101-1,00**
*		**EC Number: 203-341-5**	
*	**80-56-8**	**pin-2(3)-ene (alpha pinene)**	**0,101-1,00**
*		**EC Number: 201-291-9**	
*	**106-24-1**	**geraniol**	**0,101-1,00**
*		**EC Number: 203-377-1**	

04 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.

05 Fire-fighting measures

- Suitable extinguishing agents:
  CO2, sand, extinguishing powder. Do not use water.
  Use fire fighting measures that suit the environment.
- 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.

(Contd. on page 3)

BIOLANDES

Safety Data Sheet
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1692303

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Printing date: 02.28.2023

PRODUCT : LAVENDER FINE OIL

(Contd. of page 2)

- Protective equipment:
  Do not inhale explosion gases or combustion gases.
- Additional information
  Cool endangered receptacles with water spray.

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

6.3 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.

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 protection against explosions and fires:
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.

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 receptacle 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.

08 Exposure controls/personal protection

- Components with limit values that require monitoring at the workplace:
  Not required.
- CAS No. Designation of material % Type Value Unit
  Not required.
- Additional information:
  The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
  The usual precautionary measures for handling chemicals should be followed.
  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.
- Breathing equipment:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:

(Contd. on page 4)

BIOLANDES

Safety Data Sheet
according to 29 CFR 1910.1200

1692303

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PRODUCT : LAVENDER FINE OIL

(Contd. of page 3)

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

09 Physical and chemical properties

General Information	
Appearance:	
Form:	fluid
Color:	light yellow
Odor:	lavender
Odor threshold:	Not determined.
Change in condition	
Melting point/Melting range:	< -20,0 °C
Boiling point/Boiling range:	172,0 °C
Flash point:	78,0 °C NFT 60-103 CC
Flammability (solid, gaseous):	Undetermined.
Auto igniting:	Not determined.
Danger of explosion:	Undetermined.
Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	0,8800 0,8900 D20/4
Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
Undetermined.

- Incompatible materials:
No further relevant information available.

- Hazardous decomposition products:
Undetermined.

11 Toxicological information

- Acute toxicity:
- LD/LC50 values that are relevant for classification:

ISO LD/LC

8000-28-0 **Lavandula angustifolia Miller (Syn : Lavandula officinalis Chaix)**
Oral, LD50: >5000 mg/kg (rat) (OECD 401)

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

(Contd. on page 5)

BIOLANDES

Safety Data Sheet
according to 29 CFR 1910.1200

1692303

Reviewed on: 02.16.2023
Printing date: 02.28.2023

PRODUCT : LAVENDER FINE OIL

(Contd. of page 4)

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

* **87-44-5 caryophyllene**
* Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

* **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)

- Primary irritant effect:
- on the skin:

8000-28-0 Lavandula angustifolia Miller (Syn : Lavandula officinalis Chaix)
Irritation of skin, OECD 439: NOT CLASSIFIED (in vitro) (Episkin, 2016)

- on the eye:

8000-28-0 Lavandula angustifolia Miller (Syn : Lavandula officinalis Chaix)
Irritation of eyes, OECD 492: IRRITANT (in vitro) (Epiocular, 2016)
Causes serious eye irritation.

- Sensitization:

2442-10-6 oct-1-en-3-nyl acetate
Dermal, OECD 429 LLNA: SENSITIZER (mouse) (EC3 > 7500, IFRA STANDARD 2009)
Sensitization, NESIL: 3500 ug/cm2 (mouse) (IFRA 2009)

- Subacute to chronic toxicity:

115-95-7 acetate linalyle
Oral, NOAEL: 250 mg/kg (rat) (90days, RIFM 1980)

* **78-70-6 LINALOOL**
Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)

* **87-44-5 caryophyllene**
* Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)

- OSHA-Ca (Occupational Safety & Health Administration)
  Substance is not listed.
- Specific target organ toxicity - single exposure
  Not determined.
- Specific target organ toxicity - repeated exposure
  Not determined.

12 Ecological information

* - Aquatic toxicity:

8000-28-0 Lavandula angustifolia Miller (Syn : Lavandula officinalis Chaix)
CE50/48h: 21,995 mg/l (daphnia) (OECD 202)
ErC50(0-72h): 13 mg/l (algae) (OECD 201)

115-95-7 acetate linalyle
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)

* **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)

- Persistence and degradability
  No further relevant information available.
- Behavior in environmental systems:
  Not determined.

- Bioaccumulative potential
  No further relevant information available.
- Ecotoxical effects:
  Not determined.

(Contd. on page 6)

BIOLANDES

Safety Data Sheet
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PRODUCT : LAVENDER FINE OIL

(Contd. of page 5)

- Additional ecological information:
- General notes:
  Harmful to aquatic organisms
  The material is harmful to the environment.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
  Must be specially treated adhering to official regulations.
- Uncleaned packagings:
- Recommendation:
  Disposal must be made according to official regulations.

14 Transport information

- UN-Number

DOT	Void
ADR	Void
IMDG	Void
IATA	Void

- UN proper shipping name

DOT	Void
ADR	Void
IMDG	Void
IATA	Void

- Transport hazard class(es)

DOT	
Class	Void
ADR	
Class	Void
IMDG	
Class	Void
IATA	
Class	Void

- Packing group

DOT	Void
ADR	Void
IMDG	Void
IATA	Void

- Environmental hazards:
  Not applicable.
- Special precautions for user
  Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  Not applicable.
- Transport/Additional information:
  Not applicable.

(Contd. on page 7)

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Safety Data Sheet
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1692303

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PRODUCT : LAVENDER FINE OIL

(Contd. of page 6)

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  Non-mandatory
- Hazardous Air Pollutants
  Substance is not listed.

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 US 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 vapor.
	H227	Combustible liquid.
	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.
*	H401	Toxic to aquatic life.
*	H402	Harmful 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 preparation / last revision
  16.02.2023

- 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

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

- * Data compared to the previous version altered.