



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

1649403

Reviewed on: 09.07.2024 Printing date: 09.07.2024

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

1.1 Product identifier

- Trade name:
- LAVENDER ABSOLUTE HEXANE
- Article number:
- P00543813000 CAS Number:
 - 8000-28-0
- EC Number:
- 283-994-0
- No CAS EINECS:

84776-65-8

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

Skin Irrit. 2 - H315 Causes skin irritation. 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
- H315 Causes skin irritation.
- 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

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- PBT:

Not applicable.

vPvB:

Not applicable.

Determination of endocrine-disrupting properties None of the ingredients is 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: 283-994-0

 Dangerous of CAS Number 	omponents.	%
78-70-6	LINALOOL EC number: 201-134-4 Skin Irrit. 2 - H315, Eye Irrit. 2 -	20,001-50,00
115-95-7	H319, Skin Sens. 1B - H317 LINALYL ACETATE EC number: 204-116-4 Skin Irrit. 2 - H315, Eye Irrit. 2 -	20,001-50,00
91-64-5	H319, Skin Sens. 1 - H317 COUMARIN EC number: 202-086-7 Acute Tox. 4 - H302, Skin Sens. 1B -	5,001-10,00
87-44-5	H317; Aquatic Chronic 3 - H412 BETA-CARYOPHYLLENE EC number: 201-746-1 Asp. Tox. 1 - H304; Skin Sens.	1,001- 5,000
2442-10-6	1B - H317 1-Octen-3-yl acetate EC number: 219-474-7 Acute Tox. 4 - H302, Skin Sens. 1B -	0,101-1,000
5989-27-5	H317 d-limonene EC number: 227-813-5 Asp. Tox. 1 - H304; Flam. Liq. 3	0,101-1,000
105-87-3	- H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Acute 1 - H400 (M=1); Aquatic Chronic 3 - H412 GERANYL ACETATE EC number: 203-341-5	0,101-1,000
106-24-1	Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Chronic 3 - H412 GERANIOL EC number: 203-377-1	0,101-1,000
	 Eye Dam. 1 - H318;	(continued on page





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Eucalyptol

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0,101-1,000

EC number: 207-431-5

🅸 Flam. Liq. 3 - H226; 🗘 Skin Sens.

1B - H317

470-82-6

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.

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:

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.

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See Section 13 for disposal information.

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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.

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.

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 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

Safety glasses

Body protection:

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Impervious protective clothing Boots

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9.1 Information on basic physical and chemic	al properties		
General Information			
Physical state	Solid		
Colour:	brown-green		
Odour:	lavender		
Odour threshold:	Not determined.		
Boiling point or initial boiling point and boiling range	Not determined.		
Flammability	Not determined.		
Lower and upper explosion limit		_	
Lower:	Not determined.		
Upper:	Not determined.		
Flash point:	> 100,0 °C NFT 60-103 CC		
Decomposition temperature:	Not determined.		
pH	Not applicable.		
Viscosity:			
Kinematic viscosity	Not applicable.		
Dynamic:	Not applicable.		
Solubility	1 L		
water:	Not determined.		
Partition coefficient n-octanol/water (log value)			
Vapour pressure:	Not applicable.	_	
Density and/or relative density		_	
Density:	Not determined.		
Relative density	0,9500 1,0150 D30/20 not available		
Vapour density	Not applicable.		
9.2 Other information	No further relevant information available.		
Appearance:			
Form:	heterogeneous cloudy liquid		
Important information on protection of health	The state of the s	_	
Auto-ignition temperature:	Not determined.		
Explosive properties:	Not determined.		
Solvent content:		_	
Solids content:	0,00 %		
Change in condition		_	
Evaporation rate	Not applicable.		
Information with regard to physical hazard cla			
Explosives	not applicable		
Flammable gases	not applicable		
Aerosols	* *		
Oxidising gases		not applicable	
Gases under pressure	not applicable		
	not applicable		
Flammable liquids			
Flammable solids	not applicable		
Self-reactive substances and mixtures	not applicable		
Pyrophoric liquids	uids not applicable ids not applicable		

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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

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

78-70-6 LINALOOL

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

91-64-5 COUMARIN

Oral, LD50: 293 mg/kg (rat)

87-44-5 BETA-CARYOPHYLLENE

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

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

Oral, LD50: 4400 mg/kg (rat)

105-87-3 GERANYL ACETATE

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

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

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

78-70-6 LINALOOL

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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)

* 105-87-3 GERANYL ACETATE

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

* 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)

* 91-64-5 COUMARIN

Micronoyau: NEGATIVE (in vitro) (RIFM 2019)

2442-10-6

1-Octen-3-yl acetate

Micronoyau: NEGATIVE (in vitro) (RIFM 2014)

105-87-3 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

Not determined.

• 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)

91-64-5 COUMARIN

Oral, NOAEL: 75 mg/kg (rat) (13 weeks, NTP 1993)

87-44-5 BETA-CARYOPHYLLENE

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

• 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

• Aquatic toxicity:

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)

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

No further relevant information available.

• Behaviour in environmental systems: Not determined.

12.3 Bioaccumulative potential

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No further relevant information available.

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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.

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

14.3 Transport hazard class(es)

. ADR

* . Class Not classified

. IMDG

* Not classified

. IATA

. Class Not classified

14.4 Packing group

* ADR Not classified

* IMDG Not classified

* IATA Not classified

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

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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
- None of the ingredients is listed.
 - REGULATION (EU) 2019/1148
 - Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- None of the ingredients is listed.
 - Annex II REPORTABLE EXPLOSIVES PRECURSORS
 - None of the ingredients is listed.
 - Regulation (EC) No 273/2004 on drug precursors
 - None of the ingredients is listed.
 - Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
- * None of the ingredients is listed.
 - National regulations:
 - Technical instructions (air):
 - · Class Share in %
 - I 0,36
 - Waterhazard class:

Water hazard class 1 (Self-assessment): slightly 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.
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. 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:
- 2.00
 - · Abbreviations and acronyms:

IFRA:International Fragrance Association IOFI:International Organization of the Flavor Industry

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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.