BIOLANDES

CHEMICAL SAFETY DATA SHEET

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

1758802

Reviewed on: 17.11.2023
Printing date: 20.11.2023

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

1.1 Product identifier

*
- Trade name:
  LAVANDIN HEXANE ABSOLUTE
- Article number:
  F1718
- CAS Number:
  8022-15-9
- EC Number:
  294-470-6
- No CAS EINECS:
  91722-69-9

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. 1 - H317 May cause an allergic skin reaction.

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.
- 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.
  P280 Wear protective gloves.
  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
- PBT:
  Not applicable.
- vPvB:

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

- Identification number(s)
- EC number:
  294-470-6

- Dangerous components:

	CAS Number		%
*	**115-95-7**	**LINALYL ACETATE** EC number: 204-116-4 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317	**20,001-50,00**
*	**78-70-6**	**LINALOOL** EC number: 201-134-4 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	**20,001-50,00**
*	**76-22-2**	**CAMPHOR** 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**
*	**91-64-5**	**COUMARIN** EC number: 202-086-7 Acute Tox. 4 - H302, Skin Sens. 1B - H317; Aquatic Chronic 3 - H412	**5,001-10,00**
*	**507-70-0**	**l-Borneol** EC number: 208-080-0 Flam. Sol. 2 - H228; Skin Irrit. 2 - H315	**1,001- 5,000**
*	**470-82-6**	**Eucalyptol** EC number: 207-431-5 Flam. Liq. 3 - H226; Skin Sens. 1B - H317	**1,001- 5,000**
*	**87-44-5**	**BETA-CARYOPHYLLENE** EC number: 201-746-1 Asp. Tox. 1 - H304; Skin Sens. 1B - H317	**1,001- 5,000**
*	**5989-27-5**	**d-limonene** 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**
*	**105-87-3**	**GERANYL ACETATE**	**0,101-1,000**

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* EC number: 203-341-5
* Skin Irrit. 2 - H315, Skin Sens. 1B -
* H317; Aquatic Chronic 3 - H412
* **2442-10-6** **1-Octen-3-yl acetate** **0,101-1,000**
* EC number: 219-474-7
* Acute Tox. 4 - H302, Skin Sens. 1B -
* H317
* **106-24-1** **GERANIOL** **0,101-1,000**
* EC number: 203-377-1
* Eye Dam. 1 - H318; Skin Irrit. 2
* - H315, Skin Sens. 1 - 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 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:

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Do not allow product to reach sewage system or any water course.

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.
  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

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- 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:

* Impervious protective clothing

* Boots

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Physical state	Fluid
Colour:	green-brown
Odour:	agrestic
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:	93,0 °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	Not determined.
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	heterogeneous cloudy liquid
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

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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

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)

* **76-22-2 CAMPHOR**
Oral, LD50: >5000 mg/kg (rat) (Opdyke 1978)
Dermal, LD50: >1000 mg/kg (mouse) (NTP 1998)

* **91-64-5 COUMARIN**
Oral, LD50: 293 mg/kg (rat)

470-82-6 Eucalyptol
Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)

* **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)
- Primary irritant effect:

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- 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)
Sensitization possible through skin contact.

- Germ cell mutagenicity

* **115-95-7 LINALYL ACETATE**
OECD 471 AMES: NEGATIVE (in vitro) (RIFM 1989)

* **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)

* **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)

- 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)

* **105-87-3 GERANYL ACETATE**
Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)

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:

* **115-95-7 LINALYL ACETATE**
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)

* **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)

* **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.

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SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity:

* **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)

* **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)
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
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.

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

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* . **IATA** Not classified

14.3 Transport hazard class(es)

. **ADR**

* . **Class** Not classified

. **IMDG**

* . **Class** 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.

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 8,00

- 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

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H226	Flammable liquid and vapour.
H228	Flammable solid.
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.
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:
* 14.12.2022
* • 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.