



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

1857801

Reviewed on: 12.12.2023 Printing date: 12.12.2023

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

- 1.1 Product identifier
- Trade name:

JUNIPER SELECTED BERRIES OIL

• Article number:

F7391

- CAS Number:
  - 8002-68-4
- EC Number: 283-268-3
  - 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.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



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.



GHS09

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms









GHS08

GHS02

GHS07

GHS09

 Signal word Danger

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- Hazard-determining components of labelling:
  - (R)-p-mentha-1,8-diene
- Hazard statements
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
  - H411 Toxic to aquatic life with long lasting effects.
  - Precautionary statements
    - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
  - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - 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
- None of the ingredients is listed.

# SECTION 03: Composition/information on ingredients

- 3.2 Mixtures
  - Description: Mixture .

CAS Number		%
80-56-8	ALPHA-PINENE	20,001-50,00
	EC number: 201-291-9	
	♦ Asp. Tox. 1 - H304; ♦ Flam. Liq. 3	
	- H226; 💠 Acute Tox. 4 - H302, Skin	
	Irrit. 2 - H315, Skin Sens. 1B - H317	
127-91-3	BETA-PINENE	10,001-20,00
	EC number: 204-872-5	
	♦ Asp. Tox. 1 - H304; ♦ Flam. Liq. 3	
	- H226; 💠 Skin Irrit. 2 - H315, Skin	
	Sens. 1B - H317	
562-74-3	4-Carvomenthenol	5,001-10,00
	EC number: 209-235-5	
	Acute Tox. 4 - H302, Skin Irrit. 2 -	
	H315, Eye Irrit. 2 - H319	
5989-27-5	d-limonene	1,001- 5,000
	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	
470-82-6	Eucalyptol	0,101-1,000
	EC number: 207-431-5	
	🅸 Flam. Liq. 3 - H226; 🔱 Skin Sens.	
	1B - H317	
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EC number: 207-418-4			(continued of page 2)
Asp. Tox. 1 - H304;	469-61-4	alpha-Cedrene	0,101-1,000
Acute 1 - H400 (M=10), Aquatic Chronic 1 - H410 (M=10)  106-22-9  CITRONELLOL  EC number: 203-375-0  Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317  78-70-6  LINALOOL  EC number: 201-134-4  Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317  475-20-7  longifolene  EC number: 207-491-2  Asp. Tox. 1 - H304; Skin Irrit.  2 - H315, Skin Sens. 1B - H317;   √  Skin Irrit.		EC number: 207-418-4	
H410 (M=10)  CITRONELLOL  EC number: 203-375-0  ♦ Skin Irrit. 2 - H315, Eye Irrit. 2 -  H319, Skin Sens. 1B - H317  INALOOL  EC number: 201-134-4  ♦ Skin Irrit. 2 - H315, Eye Irrit. 2 -  H319, Skin Sens. 1B - H317  475-20-7  longifolene  EC number: 207-491-2  ♦ Asp. Tox. 1 - H304; ♦ Skin Irrit.  2 - H315, Skin Sens. 1B - H317; ♦		🕸 Asp. Tox. 1 - H304; 锋 Aquatic	
106-22-9  CITRONELLOL  EC number: 203-375-0		Acute 1 - H400 (M=10), Aquatic Chronic 1 -	
EC number: 203-375-0		H410 (M=10)	
<ul> <li>Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317</li> <li>LINALOOL         <ul> <li>EC number: 201-134-4</li> <li>Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317</li> </ul> </li> <li>475-20-7         <ul> <li>Iongifolene</li> <li>EC number: 207-491-2</li> <li>Asp. Tox. 1 - H304;</li> <li>Skin Irrit.</li> </ul> </li> <li>2 - H315, Skin Sens. 1B - H317;</li> </ul>	106-22-9	CITRONELLOL	0,101-1,000
H319, Skin Sens. 1B - H317  78-70-6  LINALOOL  EC number: 201-134-4  Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317  475-20-7  longifolene  EC number: 207-491-2  Asp. Tox. 1 - H304; Skin Irrit.  2 - H315, Skin Sens. 1B - H317;	•	EC number: 203-375-0	
78-70-6  LINALOOL  EC number: 201-134-4  Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317  475-20-7  longifolene  EC number: 207-491-2  Asp. Tox. 1 - H304; Skin Irrit.  2 - H315, Skin Sens. 1B - H317;   Skin Irrit.	r	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
### Consider the control of the cont	•	H319, Skin Sens. 1B - H317	
<ul> <li>Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317</li> <li>475-20-7 longifolene</li></ul>	78-70-6	LINALOOL	0,101-1,000
H319, Skin Sens. 1B - H317  475-20-7  longifolene  EC number: 207-491-2  Asp. Tox. 1 - H304; Skin Irrit.  2 - H315, Skin Sens. 1B - H317;	r	EC number: 201-134-4	
475-20-7 longifolene 0,010-0,100 EC number: 207-491-2  ♣ Asp. Tox. 1 - H304; ♦ Skin Irrit. 2 - H315, Skin Sens. 1B - H317; ♦	·	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
EC number: 207-491-2  Asp. Tox. 1 - H304; Skin Irrit.  2 - H315, Skin Sens. 1B - H317;		H319, Skin Sens. 1B - H317	
Asp. Tox. 1 - H304; Skin Irrit.  2 - H315, Skin Sens. 1B - H317;	475-20-7	longifolene	0,010-0,100
2 - H315, Skin Sens. 1B - H317; 🔖	ŧ		
	•	♦ Asp. Tox. 1 - H304; ♦ Skin Irrit.	
Aquatic Acute 1 - H400 (M=10) Aquatic	*	2 - H315, Skin Sens. 1B - H317; 🤄	
riquatio riotte i i i i i o j, riquatio	•	Aquatic Acute 1 - H400 (M=10), Aquatic	
Chronic 1 - H410 (M=10)	:	Chronic 1 - H410 (M=10)	

# 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.
- 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
- 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.

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· Additional information

Cool endangered receptacles with water spray.

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### 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.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

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Wash hands before breaks and at the end of work.

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- Avoid contact with the eyes.
  - Respiratory protection:
    - 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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

SECTION 09: Physical and chemical	properties
9.1 Information on basic physical and chemi	ical properties
General Information	
Physical state	Fluid
Colour:	light yellow
Odour:	juniper
Odour threshold:	Not determined.
Melting point/freezing point:	< -20,0 °C
Boiling point or initial boiling point and boiling range	171,0 °C
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	38,5 °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	0,8500 0,8750 (D20/4)
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	fluid
Important information on protection of healt	h and environment, and on safety.
Auto-ignition temperature:	Not determined.
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Explosive properties:	Not determined.
Solvent content:	
Solids content:	0,00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical ha	azard classes
Explosives	not applicable
Flammable gases	not applicable
Aerosols	not applicable
Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	Flammable liquid and vapour.
Flammable solids	not applicable
Self-reactive substances and mixtures	s 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	
Oxidising liquids	not applicable
Oxidising solids	not applicable

not applicable

not applicable

not applicable

### SECTION 10: Stability and reactivity

10.1 Reactivity

Organic peroxides

Corrosive to metals

Desensitised explosives

- \* 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

### JUNIPER SELECTED BERRIES OIL

Oral, LD50: 5000 mg/kg (rat)

- Primary irritant effect:Skin corrosion/irritation
  - Irritant to skin and mucous membranes.
- Causes skin irritation.
  - Serious eye damage/irritation Irritating effect.

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Causes serious eye irritation.

Respiratory or skin sensitisation

Sensitization possible through skin contact.

• Germ cell mutagenicity

470-82-6 Eucalyptol

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

LINALOOL 78-70-6

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

Carcinogenicity

78-70-6 LINALOOL

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

Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)

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:

Not determined.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Carcinogenic if inhaled.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

# SECTION 12: Ecological information

### 12.1 Toxicity

· Aquatic toxicity:

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

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

469-61-4 alpha-Cedrene

LD50: 0,099 mg/l (daphnia)

### 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)

# 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

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No further relevant information available.

- Ecotoxical effects:
- Not determined.
- Remark:
- Remark.
  - Toxic for fish
- Additional ecological information:
  - General notes:

Toxic for aquatic organisms

The product contains materials that are 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 UN1993IMDG UN1993IATA UN1993

14.2 UN proper shipping name

\* ADR
 \* 1993 FLAMMABLE LIQUID, N.O.S.
 \* IMDG
 \* FLAMMABLE LIQUID, N.O.S.
 \* IATA
 \* FLAMMABLE LIQUID, N.O.S.

14.3 Transport hazard class(es)

. ADR

Class 3 (F1) Flammable liquids.

. Label





IMDG

. Class 3 Flammable liquids.

Label





IATA

Class 3 Flammable liquids.

Label



14.4 Packing group

ADR III

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. IMDG III

14.5 Environmental hazards:

. Marine pollutant: Yes

14.6 Special precautions for user

Warning: Flammable liquids.

Danger code (Kemler):

EMS Number: F-E,S-E

- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
- Transport/Additional information:
- \* ADR

Excepted quantities (EQ): E1
Limited quantities (LQ) 5L
Transport category 3
Tunnel restriction code D/E

. IMDG

Limited quantities (LQ)Excepted quantities (EQ)E1

- UN "Model Regulation":
- \* UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS

# 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 0,01
- 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.

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### 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

	- Itcicvant p	7111 4363
	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.
	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

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.