

1731504

Reviewed on: 15.12.2022
Printing date: 15.12.2022

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

1.1 Product identifier

- Trade name:
MYRTLE OIL
- Article number:
P00627889000
- CAS Number:
8008-46-6
- EC Number:
282-012-8
- No CAS EINECS:
84082-67-7
- Registration number
01-2120120890-64-0000

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



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.
Skin Sens. 1B - 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

(continued on page 2)

1731504

Reviewed on: 15.12.2022
Printing date: 15.12.2022

PRODUCT : MYRTLE OIL

(continued of page 1)

- Signal word
Danger
 - 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.
 - 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
 - * Substance is not listed.

SECTION 03: Composition/information on ingredients

3.1 Substances

CAS No.	Description
8008-46-6	Myrtus communis L.

- Identification number(s)
- EC number:
282-012-8

• Dangerous components:

CAS Number		%
470-82-6	Eucalyptol EC number: 207-431-5 ⚠ Flam. Liq. 3 - H226; ⚠ Skin Sens. 1B - H317	20,001-50,00
80-56-8	pin-2(3)-ene 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	20,001-50,00
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; Aquatic Chronic 3 - H412	10,001-20,00
98-55-5	p-menth-1-en-8-ol EC number: 202-680-6 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	1,001- 5,00
78-70-6	Linalool EC number: 201-134-4 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	1,001- 5,00

(continued on page 3)

1731504

Reviewed on: 15.12.2022
 Printing date: 15.12.2022

PRODUCT : MYRTLE OIL

(continued of page 3)

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:
 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.
 Avoid contact with the skin.
- Respiratory protection:
 Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:

(continued on page 5)

1731504

Reviewed on: 15.12.2022
Printing date: 15.12.2022

PRODUCT : MYRTLE OIL

(continued of page 4)

- 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

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

*	Physical state	Fluid
	Colour:	light yellow to dark yellow
	Odour:	aromatic
	Odour threshold:	Not determined.
	Melting point/freezing point:	< -20,0 °C
	Boiling point or initial boiling point and boiling range	152,00 - 200,00 °C
	Flammability	Not determined.
	Lower and upper explosion limit	
*	Lower:	Not determined.
*	Upper:	Not determined.
*	Flash point:	45,0 °C NFT 60-103 CC
*	Ignition temperature:	265,00 °C
*	Decomposition temperature:	Not determined.
*	pH	Not determined.
	Viscosity:	
*	Kinematic viscosity	at 40,00 °C 6,00 mm ² /s
*	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	0,9000 0,9250 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.

(continued on page 6)

1731504

Reviewed on: 15.12.2022
Printing date: 15.12.2022

PRODUCT : MYRTLE OIL

(continued of page 5)

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	Flammable liquid and vapour.
*	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

8008-46-6 Myrtus communis L.

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

470-82-6 Eucalyptol

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

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

Oral, LD50: 4400 mg/kg (rat)

98-55-5 p-menth-1-en-8-ol

Oral, LD50: 4300 mg/kg (rat)

78-70-6 Linalool

Oral, LD50: 2790 mg/kg (rat)

Dermal, LD50: 5610 mg/kg (Rabbit)

* **93-15-2 methyl eugenol**

Oral, LD50: 810 mg/kg (rat) (Beroza and al., 1975)

(continued on page 7)

1731504

Reviewed on: 15.12.2022
Printing date: 15.12.2022

PRODUCT : MYRTLE OIL

(continued of page 6)

140-67-0 Estragole

Oral, LD50: 1230 mg/kg (rat) (Moreno 1972)

- Primary irritant effect:
 - Skin corrosion/irritation
Irritant to skin and mucous membranes.
- Serious eye damage/irritation
No irritating effect.

*

*

*

- Respiratory or skin sensitisation
No sensitizing effects known.
- Germ cell mutagenicity

470-82-6 Eucalyptol

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

*

78-70-6 Linalool

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)

140-67-0 Estragole

Micronoyau: NEGATIVE (mouse) (NTP 2008)

- Reproductive toxicity
Not determined.
- STOT-single exposure
Not determined.
- STOT-repeated exposure
Not determined.
- Aspiration hazard
May be fatal if swallowed and enters airways.
- Subacute to chronic toxicity:

*

*

*

78-70-6 Linalool

Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)

11.2 Information on other hazards

- Endocrine disrupting properties
Substance is not 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)

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)

*

93-15-2 methyl eugenol

CE50/48h: 38 mg/l (daphnia) (Ministry of the Environment of Japan 2018)

ErC50(0-72h): 22 mg/l (algae) (Ministry of the Environment of Japan 2018)

96h-LC50: 14 mg/l (fish) (Ministry of the Environment of Japan 2018)

99-87-6 p-cymene

LD50: 1,63 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.

(continued on page 8)

1731504

Reviewed on: 15.12.2022
Printing date: 15.12.2022

PRODUCT : MYRTLE OIL

(continued of page 7)

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:
* Toxic for fish
- Additional ecological information:
- General notes:
Toxic for 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 UN1993

IMDG UN1993

IATA UN1993

14.2 UN proper shipping name

ADR 1993 FLAMMABLE LIQUID, N.O.S. (MYRTUS COMMUNIS L.)

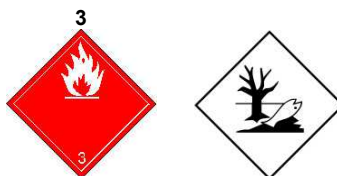
IMDG FLAMMABLE LIQUID, N.O.S. (MYRTUS COMMUNIS L.)

IATA FLAMMABLE LIQUID, N.O.S. (MYRTUS COMMUNIS L.)

14.3 Transport hazard class(es)

ADR
Class 3 (F1) Flammable liquids.

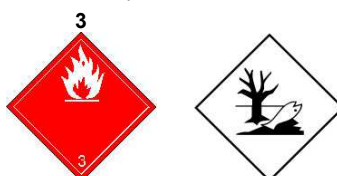
Label



IMDG

Class 3 Flammable liquids.

Label



IATA

(continued on page 9)

1731504

Reviewed on: 15.12.2022
Printing date: 15.12.2022

PRODUCT : MYRTLE OIL

(continued of page 8)

Class 3 Flammable liquids.

Label 3



14.4 Packing group

ADR III

IMDG III

IATA III

14.5 Environmental hazards:

Marine pollutant: Yes

14.6 Special precautions for user

Warning: Flammable liquids.

Danger code (Kemler): 30

EMS Number: F-E,S-E

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

- Transport/Additional information:
Not applicable.

ADR

Excepted quantities (EQ): E1

Limited quantities (LQ) 5L

Transport category 3

Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) E1

- UN "Model Regulation":
UN 1993 FLAMMABLE LIQUID, N.O.S. (MYRTUS COMMUNIS L.), 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
* 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:
- Waterhazard class:
Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment:

(continued on page 10)

1731504

Reviewed on: 15.12.2022
Printing date: 15.12.2022

PRODUCT : MYRTLE OIL

(continued of page 9)

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.
* H331	Toxic if inhaled.
* H341	Suspected of causing genetic defects.
* H351	Suspected of causing cancer.
* H400	Very toxic to aquatic life.
* H411	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 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) 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) 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 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation DOT: US Department of Transportation
 IATA: International Air Transport Association IATA: International Air Transport Association
 ICAO: International Civil Aviation Organisation ICAO: International Civil Aviation Organisation
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society) CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative vPvB: very Persistent and very Bioaccumulative
 CE50: effective concentration at 50% ErC50:concentration of test substance which results in a 50 percent reduction in either growth rate (ErC50)relative to the control within 72hrs exposure.
 - Sources

IFRA/IOFI Labelling Manual,REACH registration dossier,supplier information
 - * Data compared to the previous version altered.