



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

1565704

Reviewed on: 25.01.2023 Printing date: 25.01.2023

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

- 1.1 Product identifier
- Trade name:

RAVINTSARA MADAGASCAR OIL

Article number:

F2088

- CAS Number: 8008-51-3
- EC Number:
- 947-255-2

FRANCE

No CAS EINECS:

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

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







GHS07



GHS02 Signal word

GHS09

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PRODUCT: RAVINTSARA MADAGASCAR OIL

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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 Substance is not listed.

SECTION 03: Composition/information on ingredients

3.1 Substances

CAS No.

Description

8008-51-3 Cinnamomum camphora (L.) J.Presl • Identification number(s)

- EC number:
 - 947-255-2
- Dangerous components:

| CAS Number | | % |
|------------|---------------------------------------|----------------------|
| 470-82-6 | Eucalyptol | 50,001-100 |
| | EC number: 207-431-5 | |
| | 🌢 Flam. Liq. 3 - H226; 🔱 Skin Sens. | |
| | 1B - H317 | |
| 3387-41-5 | sabinene | 10,001-20,00 |
| | EC number: 222-212-4 | |
| | ♦ Acute Tox. 4 - H302 | |
| 98-55-5 | p-menth-1-en-8-ol | 5,001-10,00 |
| | EC number: 202-680-6 | |
| | Skin Irrit. 2 - H315, Eye Irrit. 2 - | |
| | H319 | |
| 127-91-3 | beta-Pinene | 1,001- 5,00 |
| | EC number: 204-872-5 | |
| | 🕸 Asp. Tox. 1 - H304; 🚸 Flam. Liq. 3 | |
| | - H226; 💠 Skin Irrit. 2 - H315, Skin | |
| | Sens. 1B - H317 | |
| 80-56-8 | pin-2(3)-ene | 1,001- 5,00 |
| | 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 | |
| 123-35-3 | Myrcene | 1,001- 5,00 |
| | EC number: 204-622-5 | |
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| | ♠ Asp. Tox. 1 - H304; ♠ Flam. Liq. 3 - H226; ♠ Skin Irrit. 2 - H315, Eye | (continued of page 2) |
| 562-74-3 | Irrit. 2 - H319 4-Carvomenthenol EC number: 209-235-5 | 0,101-1,00 |
| 87- 44 -5 | Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319 beta-Caryophyllene EC number: 201-746-1 Asp. Tox. 1 - H304; Skin Sens. | 0,101-1,00 |
| 99-86-5 | 1B - H317 1-isopropyl-4-methylcyclohexa-1,3-diene EC number: 202-795-1 \$\infty\$ Asp. Tox. 1 - H304; \$\infty\$ Flam. Liq. 3 | 0,101-1,00 |
| | - H226; | |
| 586-62-9 | Terpinolene EC number: 209-578-0 Asp. Tox. 1 - H304; Skin Sens. 1B - H317; Aquatic Acute 1 - H400, | 0,101-1,00 |
| | Aquatic Chronic 1 - H410 | |

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
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

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5.3 Advice for firefighters

- Protective equipment:
 - Do not inhale explosion gases or combustion gases.
- 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: 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:

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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 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.

• 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 | l properties | | |
|--|--|---------------|--|
| 9.1 Information on basic physical and chem | nical properties | | |
| General Information | | | |
| Physical state | Fluid | | |
| Colour: | colourless | | |
| Odour: | agrestic | | |
| Odour threshold: | Not determined. | | |
| Melting point/freezing point: | < -20,0 °C | | |
| Boiling point or initial boiling point and boiling range | 178,00 - 179,00 °C | | |
| Flammability | Not determined. | | |
| Lower and upper explosion limit | | | |
| Lower: | Not determined. | | |
| Upper: | Not determined. | | |
| Flash point: | 49,0 °C NFT 60-103 CC | | |
| Decomposition temperature: | Not determined. | | |
| рН | 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 | 0,9000 0,9150 (D20/20) | | |
| Vapour density | apour density Not determined. | | |
| 9.2 Other information | No further relevant information available. | | |
| Appearance: | | | |
| Form: | fluid | | |
| Important information on protection of heal | lth and environment, and on safety. | | |
| Auto-ignition temperature: | Not determined. | | |
| Explosive properties: | Not determined. | | |
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| | | (continued of page 5) | | |
|---|--|-----------------------|--|--|
| Solvent content: | | | | |
| Solids content: | 0,00 % | | | |
| Change in condition | | | | |
| Evaporation rate | Not determined. | | | |
| Information with regard to physical hazard | 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

8008-51-3 Cinnamomum camphora (L.) J.Presl

Oral, LD50: 5100 mg/kg (rat) (read cross 1971)

470-82-6 Eucalyptol

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

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

Oral, LD50: 4300 mg/kg (rat)

87-44-5 beta-Caryophyllene

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

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99-86-5 p-mentha-1,3-diene

Oral, LD50: 1680 mg/kg (ATE)

• 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

 $Sensitization\ possible\ through\ skin\ contact.$

Germ cell mutagenicity

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)

Carcinogenicity

Not determined.

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.

11.2 Information on other hazards

· Endocrine disrupting properties

Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

• Aquatic toxicity:

8008-51-3 Cinnamomum camphora (L.) J.Presl

CE50/48h: 1,06 mg/l (daphnia) (calculation) CE50(96): 2,01 mg/l (algae) (calculation)

123-35-3 Myrcene

LD50: 0,51 mg/l (fish) (OECD 203) CE50/48h: 0,65 mg/l (daphnia)

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:

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- 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 UN1197
* IMDG UN1197
* IATA UN1197

14.2 UN proper shipping name

* ADR 1197 EXTRACTS, LIQUID

* IMDG EXTRACTS, LIQUID

* IATA EXTRACTS, LIQUID

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
IMDG III
IATA III

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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-D

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 1197 EXTRACTS, LIQUID, 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:
- Technical instructions (air):
- Class Share in % I 0,02
- 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.

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.

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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

Flammable liquid and vapour. H226

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

Causes skin irritation. H315

May cause an allergic skin reaction. H317 H319 Causes serious eve irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic 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.