

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 7/28/2014 Revision date: 5/10/2022 Supersedes version of: 6/18/2021 Version: 1.5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Substance name : RAVINTSARA OIL
EC-No. : 295-980-1
CAS-No. : 92201-50-8
Product code : RAVHE03
Product group : Essential oil

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use Industrial/Professional use spec : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

EXAFLOR 5 rue des Pyrénées P.O. Box CP 30561 94653 Rungis Cedex - France T +33 (0)1 41 73 23 10

exaflor@orange.fr - www.exaflor.co

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA (FRANCE)		+33 1 45 42 59 59	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3

H226
Skin corrosion/irritation, Category 2

H315
Serious eye damage/eye irritation, Category 2

H319
Skin sensitisation, Category 1

H317
Reproductive toxicity, Category 2

H361
Aspiration hazard, Category 1

H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2

H411
Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :









GHS02

GHS07

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : 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.

H361 - Suspected of damaging fertility or the unborn child.

H411 - Toxic to aquatic life with long lasting effects.P201 - Obtain special instructions before use.

P210 - Keep away from heat, sparks, open flames, hot surfaces. No smoking.

P261 - Avoid breathing fume, gas, dust, vapours. P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection.

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do

NOT induce vomiting.

P308+P313 - IF exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

2.3. Other hazards

No additional information available

Precautionary statements (CLP)

SECTION 3: Composition/information on ingredients

3.1. Substances

 Name
 : RAVINTSARA OIL

 CAS-No.
 : 92201-50-8

 EC-No.
 : 295-980-1

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
EUCALYPTOL	CAS-No.: 470-82-6 EC-No.: 207-431-5	50 – 73	Flam. Liq. 3, H226
SABINENE	CAS-No.: 3387-41-5 EC-No.: 222-212-4	8.5 – 16.6	Flam. Liq. 3, H226
ALPHA-TERPINEOL	CAS-No.: 98-55-5 EC-No.: 202-680-6	3.5 – 11	Skin Irrit. 2, H315 Eye Irrit. 2, H319
ALPHA-PINENES	CAS-No.: 80-56-8 EC-No.: 201-291-9	2.5 – 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BETA-PINENES	CAS-No.: 127-91-3 EC-No.: 204-872-5	1 – 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
4-TERPINEOL	CAS-No.: 562-74-3 EC-No.: 209-235-5	1 – 4	Acute Tox. 4 (Oral), H302 (ATE=1300 mg/kg de poids corporel) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
MYRCENE	CAS-No.: 123-35-3 EC-No.: 204-622-5	1.3 – 4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319
GAMMA-TERPINENE	CAS-No.: 99-85-4 EC-No.: 202-794-6	≤ 4	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304
D-LIMONENE	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7	≤ 2.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINALOOL	CAS-No.: 78-70-6 EC-No.: 201-134-4	≤ 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
CAMPHOR	CAS-No.: 76-22-2 EC-No.: 200-945-0	≤ 0.05	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg de poids corporel) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

First-aid measures after eye contact

First-aid measures after ingestion

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water/... Wash contaminated clothing before reuse. If skin irritation occurs: Rinse skin with water/shower. Get medical advice/attention. Specific treatment (see Refer to

instruction manual/booklet on this label). If skin irritation or rash occurs: Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Consult an eye specialist. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after skin contact : Causes skin irritation. Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation. Eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of lung oedema.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames.

No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and

no smoking. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling

- : Handle empty containers with care because residual vapours are flammable.
- Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing smokes, vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes.

Hygiene measures

: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment.

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Store locked up.

Incompatible products

Strong bases. Strong acids.Sources of ignition. Direct sunlight. Heat sources.

Incompatible materials

Maximum storage period

: 36 months Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the

raw material.

Storage temperature : 5-25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : light yellow. Green. Appearance : Liquid mobile.

Odour : fresh. camphoric. characteristic.

Odour threshold : Not available
Melting point : Not applicable
Freezing point : Not available
Boiling point : Not available

Flammability : Flammable liquid and vapour.

Explosive limits : Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available Flash point : 46 °C Auto-ignition temperature : Not available : Not available Decomposition temperature : Not available рΗ Viscosity, kinematic : Not available

Solubility : Poorly soluble in water. Solubility in ethanol.

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density : Not available Relative density : 0.9 – 0.92

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Relative vapour density at 20 °C : Not available Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable : Not applicable Particle aggregation state Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Refractive index : 1.46 – 1.49

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Not established. Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ALPHA-PINENES (80-56-8)	
LD50 oral rat	3700 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
4-TERPINEOL (562-74-3)	
LD50 oral rat 1300 mg/kg	
LD50 dermal rabbit	2500 mg/kg

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IDEO I (4400 //
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LINALOOL (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 oral	3120 mg/kg LD50 oral mouse
LD50 dermal rabbit	5610 mg/kg
MYRCENE (123-35-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
GAMMA-TERPINENE (99-85-4)	
LD50 oral rat	3850
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Additional information Carcinogenicity Additional information	 Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met
D-LIMONENE (5989-27-5)	
IARC group	3 - Not classifiable
Reproductive toxicity Additional information STOT-single exposure Additional information 4-TERPINEOL (562-74-3)	Suspected of damaging fertility or the unborn child. Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met
STOT-single exposure	May cause respiratory irritation.
STOT-single exposure STOT-repeated exposure Additional information Aspiration hazard	Not classified Based on available data, the classification criteria are not met May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms

: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Ecology - water : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Toxic to aquatic life with long lasting effects.

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ALPHA-PINENES (80-56-8)		
LC50 - Fish [1]	0.28 mg/l Pimephales promela (fathead minnow) - 96h	
LC50 - Other aquatic organisms [1]	41 mg/l EC50 48h - Daphnia magna [mg/l]	
D-LIMONENE (5989-27-5)		
LC50 - Fish [1]	0.702 mg/l Pimephales promela (fathead minnow) -96h	
EC50 - Crustacea [1]	69.6 daphnia - 48h	
LINALOOL (78-70-6)		
LC50 - Fish [1]	27.8 mg/l EC 50 (fish : rainbow trout) : - 96h	
LC50 - Other aquatic organisms [1]	88.3 mg/l Desmodesmus subspicatus (green algae) - 96h	
EC50 - Crustacea [1]	59 mg/l EC50 48h - Daphnia magna [mg/l]	
NOEC chronic fish	3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h	
NOEC chronic crustacea	25 mg/l daphnia - 48h	

12.2. Persistence and degradability

RAVINTSARA OIL (92201-50-8)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
ALPHA-TERPINEOL (98-55-5)		
Persistence and degradability	Not established.	
ALPHA-PINENES (80-56-8)		
Persistence and degradability	Readily biodegradable. May cause long-term adverse effects in the environment.	
4-TERPINEOL (562-74-3)		
Persistence and degradability	Not established.	
D-LIMONENE (5989-27-5)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
LINALOOL (78-70-6)		
Persistence and degradability	Readily biodegradable. Not established.	
Biodegradation	100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B	
BETA-PINENES (127-91-3)		
Persistence and degradability	Not established.	
MYRCENE (123-35-3)		
Persistence and degradability	Not established.	
GAMMA-TERPINENE (99-85-4)		
Persistence and degradability	Not established.	

12.3. Bioaccumulative potential

12.5. Bloaccumulative potential		
RAVINTSARA OIL (92201-50-8)		
Bioaccumulative potential	Not established.	

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ALPHA-TERPINEOL (98-55-5)	
Bioaccumulative potential	Not established.
ALPHA-PINENES (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4.834
Bioaccumulative potential	Not established.
4-TERPINEOL (562-74-3)	
Bioaccumulative potential	Not established.
D-LIMONENE (5989-27-5)	
Bioaccumulative potential	Not established.
LINALOOL (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.97
Bioaccumulative potential	Not established.
BETA-PINENES (127-91-3)	
Bioaccumulative potential	Not established.
MYRCENE (123-35-3)	
Partition coefficient n-octanol/water (Log Kow)	4.17
Bioaccumulative potential	Not established.
GAMMA-TERPINENE (99-85-4)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods
Product/Packaging disposal recommendations

Ecology - waste materials

- $: \ \, \text{Dispose of contents/container in accordance with licensed collector's sorting instructions}.$
- : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local,

regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.

: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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14.1. UN number or ID number

 UN-No. (ADR)
 : UN 1169

 UN-No. (IMDG)
 : UN 1169

 UN-No. (IATA)
 : UN 1169

 UN-No. (ADN)
 : UN 1169

 UN-No. (RID)
 : UN 1169

14.2. UN proper shipping name

Proper Shipping Name (ADR) : EXTRACTS, AROMATIC, LIQUID

Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

Transport document description (ADR) : UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY

HAZARDOUS

Transport document description (IMDG) : UN 1169, 3, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN) : UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID) : UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3



IATA

Transport hazard class(es) (IATA) :



ADN

Transport hazard class(es) (ADN) : 3



RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3

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14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 601, 640E

Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Vehicle for tank carriage : FL
Transport category (ADR) : 3

Hazard identification number (Kemler No.) : 30
Orange plates :

30 1169

Tunnel restriction code (ADR) : D/E

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

EU restriction list (R	EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description	
3(a)	RAVINTSARA OIL; ALPHA-PINENES; D- LIMONENE; EUCALYPTOL; SABINENE; BETA- PINENES; GAMMA- TERPINENE; MYRCENE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	
3(b)	RAVINTSARA OIL; 4- TERPINEOL; ALPHA- PINENES; LINALOOL; D-LIMONENE; ALPHA- TERPINEOL; BETA- PINENES; GAMMA- TERPINENE; MYRCENE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
3(c)	RAVINTSARA OIL ; ALPHA-PINENES ; D- LIMONENE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	
40.	RAVINTSARA OIL; ALPHA-PINENES; CAMPHOR; D- LIMONENE; EUCALYPTOL; SABINENE; BETA- PINENES; GAMMA- TERPINENE; MYRCENE	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	

RAVINTSARA OIL is not on the REACH Candidate List RAVINTSARA OIL is not on the REACH Annex XIV List

RAVINTSARA OIL is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

RAVINTSARA OIL is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 3808)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms	
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE Acute Toxicity Estimate	
BLV Biological limit value	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms		
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
EN	European Standard	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2

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Full text of H- and EUH-statements	
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.