

**01. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY UNDERTAKING****1.1 Product Identifier**

1.1 Product Identifier	Ravensara Oil.				
Biological Definition	Ravensara Aromatica Leaf Oil is the volatile oil distilled from the leaves of Ravensara aromatica, Lauraceae.				
INCI Name	Ravensara Aromatica Leaf Oil				
Synonyms Trade Names	Ravensara Aromatica Oil				
CAS Number	91770-56-8	EC Number	294-842-8	EINECS No.	294-842-8

1.2 Relative identified uses of the substance or mixture and uses advised against

No additional data available.

1.3 Details of the supplier of the safety data sheet

Calmer Solutions Limited - Hadresham, Woolborough Lane, Outwood, Surrey, England RH1 5QR - Reg No 4992013

1.4 Emergency Telephone Number

In case of a medical emergency following exposure to a chemical, call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 (UK Only)

02. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

The Full Text for all Hazard Statements displayed in Section 16.

Classification (EC 1272 / 2008)

Flammable liquid, Category 3 (Flam. Liq. 3, H226). Skin irritation, Category 2 (Skin Irrit. 2, H315). Eye irritation, Category 2 (Eye Irrit. 2, H319). Skin sensitisation, Category 1 (Skin Sens. 1, H317). Germ cell mutagenicity, Category 2 (Muta. 2, H341). Carcinogenicity, Category 2 (Carc. 2, H351). Aspiration hazard, Category 1 (Asp. Tox. 1, H304). Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

GHS08

GHS07

GHS09

GHS02

None



Signal Word

Danger

Contains

(R)-P-Mentha-1,8-Diene, Estragole, Delta-3-Carene, Alpha-Pinene, Myrcene, Methyl Eugonol, Beta-Pinene, Beta-Caryophyllene, Alpha-Phellandrene, G-Terpinene, Alpha-Terpinene,

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.
H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician.
P303 IF ON SKIN (or hair):
P361 Remove/Take off immediately all contaminated clothing.
P353 Rinse skin with water/shower.
P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.

Supplementary Precautionary Statements

None Identified

2.3 Other Hazards

PBT or PvB according to Annex XIII	The substance does not satisfy the PBT or vPvP criteria in accordance with
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

10 - 25 % (R)-P-Mentha-1,8-Diene CAS No: 5989-27-5 EC No: 227-813-5

Classification (EC 1272/2008): M Factor (Acute)=1 factor (Chronic)=1, Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

10 - 25 % Sabinene CAS No: 3387-41-5 EC No: 222-212-4

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Acute Tox. 2 - H330

2.5 - 10 % Estragole CAS No: 140-67-0 EC No: 205-247-8

Classification (EC 1272/2008): Acute Tox. 4 - H302, Skin Sens. 1 - H317, Muta. 2 - H341, Carc. 2 - H351

2.5 - 10 % Delta-3-Carene

CAS No: 13466-78-9 EC No: 236-719-3

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411, Skin Sens. 1 - H317

2.5 - 10 % Alpha-Pinene

CAS No: 80-56-8 EC No: 201-291-9

Classification (EC 1272/2008): Aquatic Acute 2 - H400, Chronic Aquatic 1 - H410, Skin Sens. 1 - H317, Skin Irrit 2 - H315, Asp. Tox. 1 - H304, Acute Tox. 5 - H503, Flam. Liq. 3 - H226

2.5 - 10 % Linalool

CAS No: 78-70-6 EC No: 201-134-4

Classification (EC 1272/2008): Acute Tox. 5 - H303, Skin Irrit. 2 - H315, Aquatic Acute 3 - H402

2.5 - 10 % Myrcene

CAS No: 123-35-3 EC No: 204-622-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 3 - H412

2.5 - 10 % 4-Terpineol

CAS No: 562-74-3 EC No: 209-235-5

Classification (EC 1272/2008): Acute Tox. 4 - H302, Skin Irrit. 2 - H315

2.5 - 10 % Methyl Eugenol

CAS No: 93-15-2 EC No: 202-223-0

Classification (EC 1272/2008): Acute Tox. 4 - H302, Muta. 2 - H341, Carc. 2 - H351, Aquatic Chronic 2 - H411

2.5 - 10 % Beta-Pinene

CAS No: 127-91-3 EC No: 20-872-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317

2.5 - 10 % Eucalyptol

CAS No: 470-82-6 EC No: 207-431-5

Classification (EC 1272/2008): Skin Irrit. 3 (316) (EFA), Acute Tox. 5 (H503)(EFA), Flam. Liq. 3 - H226 (EFA)

2.5 - 10 % Beta Caryophyllene

CAS No: 87-44-5 EC No: 201-746-1

Classification (EC 1272/2008): Asp. Toxic 1 - H304

2.5 - 10 % Alpha Phellandrene

CAS No: 99-89-2 EC No: 202-792-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304

2.5 - 2.5 % G-Terpinene

CAS No: 99-58-4

EC No: 202-794-6

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox 1 - H304

0 - 2.5 % Camphene

CAS No: 79-92-5

EC No: 201-234-8

Classification (EC 1272/2008): Flam. Liq. 2 - H225, Eye Irrit. 2 - H319, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

0 - 2.5 % Alpha-Terpinene

CAS No: 99-86-5

EC No: 202-795-1

Classification (EC 1272/2008): Asp. Toxic 1 - H304, Acute Tox. 4 - H302, Aquatic Chronic 2 - H411, Flam. Liq. 3 - H226

04. FIRST AID MEASURES

4.1 Description of first aid measures

41 Inhalation:	Move to fresh air for at least 15 minutes, in case of complaints seek medical attention.
41 Ingestion:	Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label. If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.
41 Eye:	Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.
41 Skin:	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

4.2 Most important symptoms and effects, both acute and delayed

No additional data available.

4.3 Indication of any immediate medical attention and special treatment needed

No additional data available.

05. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Carbon dioxide, Chemical Powder or Foam. Do not use a direct stream of water.

5.2 Special hazards arising from the product

In case of fire Carbon Monoxide and other unidentified organic compounds may be released.

5.3 Advice for firefighters

In case of insufficient ventilation use suitable respiratory equipment. Wear chemical protective clothing.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8. For non first aid worker Avoid any contact with the skin and eyes. For first aid worker First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2 Environmental Precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.

6.3 Methods and material for containment and clearing up

Clean preferably with a detergent, do not use solvents.

6.4 Reference to other sections

No additional data available.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Always wash hands after handling. Remove and wash contaminated clothing before re-using. Remove contaminated clothing and protective equipment before entering eating areas. Fire prevention : Handle in well-ventilated areas. Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits. Never inhale this substance. Prevent the accumulation of electrostatic charges with connections to earth. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel. Recommended equipment and procedures : For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations. Avoid skin and eye contact with this substance. Avoid exposure - obtain special instructions before use. Prohibited equipment and procedures : No smoking, eating or drinking in areas where the substance is used. Never open the packages under pressure.

7.2 Conditions for safe storage, including and incompatibilities

Storage Keep the container tightly closed in a dry, well-ventilated place. Keep away from food and drink, including those for animals. Keep away from all sources of ignition - do not smoke. Keep well away from all sources of ignition, heat and direct sunlight. Avoid accumulation of electrostatic charges. Packaging Always keep in packaging made of an identical material to the original.

7.3 Specific end use(s)

No additional data available.

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Occupational exposure limits : ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

8.2 Exposure controls

Protective Equipment

Goggles



Gloves



Overalls



None

None

Process Conditions:

Provide eyewash station.

Engineering Measures:

Provide adequate ventilation.

Respiratory Equipment:	Avoid inhalation of vapour.
Hand Protection:	Avoid skin contact. Wear protective gloves.
Eye Protection:	Wear protective goggles to prevent eye contact.
Other Protection:	Slip proof shoes may be worn in event of spillages.
Hygiene Measures:	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection:	Avoid inhalation of vapour and contact with skin and eyes.
Skin Protection	Wear overalls or laboratory coat to protect from skin contact.
Environmental Exposure Controls:	Avoid discharging into drainage water.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Mobile liquid.
Colour:	Colourless to pale yellow.
Flash Point:	50°C
Odour:	Characteristic.
Relative Density:	0.870 – 0.930 @ 20°C
Refractive:	1.450 – 1.490 @ 20°C
Melting Point:	No additional data available.
Boiling:	No additional data available.
Vapour:	No additional data available.
Solubility:	Insoluble in water.
Auto Ignition:	No additional data available.

9.2 Other Information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional data available.

10.2 Chemical Stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.)

10.5 Incompatible materials

No additional data available.

10.6 Hazardous Decomposition Products

The thermal decomposition may release/form :- carbon monoxide (CO)- carbon dioxide (CO₂)

11. TOXOLOGICAL INFORMATION

11.1 Information on toxological effects

Acute Toxicity:	P-MENTHA-1,3-DIENE (SEE ALPHA-TERPINENE) (CAS: 99-86-5) Oral route : LD50 = 1680 mg/kg G-TERPINENE (CAS: 99-85-4)
Respiratory or skin sensitisation:	May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.
Skin corrosion/irritation:	Oral route : LD50 = 3850 mg/kg EUCALYPTOL (CAS: 470-82-6) Oral route : LD50 = 2480 mg/kg EUGENYL METHYL ETHER (METHYL EUGENOL) (CAS: 93-15-2) Oral route : LD50 = 810 mg/kg 4-TERPINENOL (CAS: 562-74-3) Oral route : LD50 = 1300 mg/kg Dermal route : LD50 = 2500 mg/kg LINALOOL (CAS: 78-70-6) Oral route : LD50 = 3000 mg/kg ALPHA-PINENE X (CAS: 80-56-8) Oral route : LD50 = 3700 mg/kg DELTA-3-CARENE (CAS: 13466-78-9) Oral route : LD50 = 4800 mg/kg ESTRAGOLE (CAS: 140-67-0) Oral route : LD50 = 1230 mg/kg
Serious Eye damage/irritation:	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours. May cause an allergic reaction by skin contact.
Germ Cell Mutagenicity:	No additional data available.
Carcinogenicity:	Cause for concern owing to the possibility that it may induce heritable mutations in the germ cells of humans.
Reproductive toxicity:	Suspected human carcinogen.
STOT Single exposure:	No additional data available.
STOT Repeated exposure:	No additional data available.
Photo-toxicity:	No additional data available.
Aspiration hazard:	No additional data available.
Other Information:	Aspiration toxicity includes severe acute effects such as chemical pneumon

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.

12.2 Persistence Degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

12.4 Mobility in soil

No additional data available.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other adverse effects

No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not pour into drains or waterways. Waste :Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment. Soiled packaging :Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

14. TRANSPORT INFORMATION

14.1 UN number

Road:	1169
Sea:	1169
Air:	1169

14.2 UN Proper shipping name

Extracts, aromatic

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3 ADR/RID/ADN Class 3 IMDG Class 3 ICAO Class/Division 3 Transport Labels

Cl. 3_140_s

Extracts, aromatic

Extracts, aromatic



14.4 Packing group

ADR/RID/ADN Packing group III IMDG Packing group III ICAO Packing group III

14.5 Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant.

Umwelt_140

Extracts, aromatic

Extracts, aromatic



14.6 Special precautions for users

ADR/RID

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

3 F1 III 3 30 5 L 601 640E E1 3

15. REGULATORY INFORMATION

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

Statutory Instruments
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).
Guidance Notes
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).
EU Legislation
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard or precaution	H226 Flammable liquid and vapour. H228 Flammable solid. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways.
Other Information::	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. 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.
Revision Date:	4/1/2022
Reason:	New SDS
Revision Number:	2

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