PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 8/11/2021 Revision date: 4/29/2022 Supersedes version of: 2/28/2022 Version: 1.3

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

1.1. Product identifier

Product form	: Substance
Trade name	: PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA
EC-No.	: 294-453-3
CAS-No.	: 91722-54-2
Type of product	: UVCB substance

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Aromatic raw material for professional use.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Albert Vieille SAS
629 Route de Grasse
BP 217
06227 VALLAURIS - FRANCE
T 04 93 64 16 72 - F 04 93 64 80 07
info@albertvieille.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05 GHS07

Signal word (CLP)	: Danger
Hazardous ingredients	: Geranyl acetate, Geraniol, Linalool, beta-Caryophyllene, 2,6-Octadien-1-ol,3,7-dimethyl-,(2Z)-, dipentene; limonene, Geranial, Neral, Farnesol
Hazard statements (CLP)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA

CAS-No. : 91722-54-2

EC-No. : 294-453-3

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Geraniol	(CAS-No.) 106-24-1 (EC-No.) 203-377-1	≤ 86	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Geranyl acetate	(CAS-No.) 105-87-3 (EC-No.) 203-341-5	≤ 12	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4	≤ 6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
beta-Caryophyllene	(CAS-No.) 87-44-5 (EC-No.) 201-746-1	≤ 3	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
(E)-beta-Ocimene	(CAS-No.) 3779-61-1 (EC-No.) 223-241-5	≤ 3	Not classified
Farnesol	(CAS-No.) 4602-84-0 (EC-No.) 225-004-1	≤ 1.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-Octadien-1-ol,3,7-dimethyl-,(2Z)-	(CAS-No.) 106-25-2 (EC-No.) 203-378-7	≤ 0.7	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
(Z)-beta-Ocimene	(CAS-No.) 3338-55-4 (EC-No.) 222-081-3	≤ 0.6	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Neral	(CAS-No.) 106-26-3 (EC-No.) 203-379-2	≤ 0.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
dipentene; limonene	(CAS-No.) 138-86-3 (EC-No.) 205-341-0 (EC Index-No.) 601-029-00-7	≤ 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Geranial	(CAS-No.) 141-27-5 (EC-No.) 205-476-5	≤ 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Myrcene	(CAS-No.) 123-35-3 (EC-No.) 204-622-5	≤ 0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Comments : Analysis method : gas chromatography (GC/FID) area % according to normalization method (ISO 7609 and 11024)

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

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

Symptoms/effects after eye contact : Serious damage to eyes.

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 : Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Protection during firefighting : 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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. 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. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

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

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid at room temperature.
Colour	: Yellow.
Odour	: rose-like. green. floral. hay-like. zesty.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 93 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.880 – 0.894
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Refractive index	: 1.471 – 1.478

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA (91722-54-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/kg Source: NLM,THOMSON

Geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg Source: IUCLID,NLM,THOMSON

Linalool (78-70-6)	
LD50 oral rat	3000 mg/kg Source: OECD Screening Information Data Set
LD50 dermal rabbit	≥ 2000 mg/kg Source: OECD Screening Information Data Set

Myrcene (123-35-3)	
LD50 oral rat	> 11390 mg/kg bodyweight Animal: rat
LD50 oral	> 3380 mg/kg bodyweight Animal: mouse
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

2,6-Octadien-1-ol,3,7-dimethyl-,(2Z)- (106-25-2)	
LD50 oral rat	4500 mg/kg Source: IUCLID,NLM,THOMSON
LD50 dermal rabbit	> 5000 mg/kg Source: IUCLID,NLM,THOMSON

dipentene; limonene (138-86-3)	
LD50 dermal rabbit	5000 mg/kg Source: National Library of Medicine/Hazardous Substances Data Bank

Geranial (141-27-5)	
LD50 dermal rat	> 2000 mg/kg Source: ECHA

Neral (106-26-3)	
LD50 oral rat	4960 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA

Farnesol (4602-84-0)	
LD50 oral rat	> 5000 mg/kg Source: HSDB;

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Geranyl acetate (105-87-3)	
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:

Myrcene (123-35-3)	
LOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/male, 90 days)	500 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	250 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

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

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

Geranyl acetate (105-87-3)	
LC50 - Fish [1]	1.4 mg/l Source: ECOSAR
EC50 - Crustacea [1]	14.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	3.72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	0.122 mg/l Source: ECOSAR

Geraniol (106-24-1)	
LC50 - Fish [1]	3.7 mg/l Source: ECOTOX

Linalool (78-70-6)	
LC50 - Fish [1]	46 mg/l Source: International Uniform ChemicaL Information Database
EC50 - Crustacea [1]	20 mg/l Source: OECD Screening Information Data Set
EC50 96h - Algae [1]	88.3 mg/l Source: IUCLID

Myrcene (123-35-3)	
LC50 - Fish [1]	0.92 mg/l Source: NITE
EC50 - Crustacea [1]	1.47 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.342 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.31 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

2,6-Octadien-1-ol,3,7-dimethyl-,(2Z)- (106-25-2)	
LC50 - Fish [1]	0.572 mg/l Source: ECOSAR

dipentene; limonene (138-86-3)	
LC50 - Fish [1]	38.5 mg/l Source: HSDB
EC50 - Crustacea [1]	17 mg/l Source: The ECOTOXicology database
EC50 96h - Algae [1]	0.212 mg/l Source: Ecological Structure Activity Relationships

(Z)-beta-Ocimene (3338-55-4)	
EC50 96h - Algae [1]	0.494 mg/l Source: EPISUITE

Geranial (141-27-5)	
LC50 - Fish [1]	6.78 mg/l Source: ECHA
EC50 72h - Algae [1]	103.8 mg/l Source: ECHA

Neral (106-26-3)	
LC50 - Fish [1]	6.78 mg/l Source: ECHA
EC50 - Crustacea [1]	6.8 mg/l Source: ECHA

Farnesol (4602-84-0)	
LC50 - Fish [1]	1.8 mg/l
EC50 - Crustacea [1]	2.2 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Geraniol (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	3.56

Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.97 Source: International Chemical Safety Cards

Myrcene (123-35-3)	
Partition coefficient n-octanol/water (Log Pow)	4.17

2,6-Octadien-1-ol,3,7-dimethyl-,(2Z)- (106-25-2)	
Partition coefficient n-octanol/water (Log Pow)	3.47

dipentene; limonene (138-86-3)	
Partition coefficient n-octanol/water (Log Pow)	4.57 Source: Hazardous Substances Data Bank

(Z)-beta-Ocimene (3338-55-4)	
Partition coefficient n-octanol/water (Log Pow)	4.8 Source: EPISUITE

Geranial (141-27-5)	
Partition coefficient n-octanol/water (Log Pow)	3.4453 Source: ECHA

Neral (106-26-3)	
Partition coefficient n-octanol/water (Log Pow)	3.45 Source: KOWWIN v1.68

Farnesol (4602-84-0)	
Partition coefficient n-octanol/water (Log Pow)	5.77 Source: EPISUITE

12.4. Mobility in soil

Linalool (78-70-6)	
Mobility in soil	76 Source: HSDB

(Z)-beta-Ocimene (3338-55-4)	
Mobility in soil	1074 Source: EPISUITE

Neral (106-26-3)	
Mobility in soil	401.9 Source: EPI SUITE

Farnesol (4602-84-0)	
Mobility in soil	5072 Source: EPISUITE

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user
Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
3(a)	Myrcene ; dipentene; limonene ; (Z)-beta-Ocimene

3(b)	PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA ; Geranyl acetate ; Geraniol ; Linalool ; beta-Caryophyllene ; Myrcene ; 2,6-Octadien-1-ol,3,7-dimethyl-,(2Z)- ; dipentene; limonene ; (Z)-beta-Ocimene ; Geranial ; Farnesol
3(c)	PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA ; Geranyl acetate ; beta-Caryophyllene ; Myrcene ; dipentene; limonene ; (Z)-beta-Ocimene ; Farnesol
40.	Myrcene ; dipentene; limonene ; (Z)-beta-Ocimene

PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA is not on the REACH Candidate List
PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA is not on the REACH Annex XIV List
PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA 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.
PALMAROSA ESSENTIAL OIL 100% pure and natural INDIA 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
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
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
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
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.
H318	Causes serious eye damage.
H319	Causes serious eye 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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

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.