

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/21/2019 Revision date: 1/20/2023 Supersedes version of: 12/22/2021 Version: 6.0

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

### **1.1. Product identifier**

Product form	: Substance
Trade name	: PALMAROSA EO INDIA
EC No (EC/EINECS/ELINCS)	: 203-377-1
CAS	: 106-24-1
REACH registration No	: 01-2119552430-49
Product code	: 130094
Other means of identification	: Palmarosa oil, Cymbopogon martin (CAS : 8014-19-5 / EINECS : 203-377-1)
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#### 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
Use of the substance/mixture	: Flavor ingredient
	Fragrance ingredient

### 1.2.2. Uses advised against

### No additional information available

### 1.3. Details of the supplier of the safety data sheet

BERNARDI GROUP Parc Industriel les Bois de Grasse, Avenue Michel Chevalier 06130 Grasse FRANCE T +33.4.93.40.10.03 - F +33.4.93.40.12.00 legislation@bernardi-oil.com

### **1.4. Emergency telephone number**

Country	Organisation/Company	Address	Emergency number	Comment
France	ORFILA		+33 1 45 42 59 59	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

## **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	

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# Adverse physicochemical, human health and environmental effects

#### No additional information available

# 2.2. Label elements

Labelling according to Regulation (EC) No. 1	272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS05 GHS07
Signal word (CLP)	: Danger
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.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
	P302+P352 - IF ON SKIN: Wash with plenty of water.
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

Substance type	: Mono-constituent
Name	: Geraniol
CAS	: 106-24-1
EC No (EC/EINECS/ELINCS)	: 203-377-1

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Geraniol	CAS: 106-24-1 EC No (EC/EINECS/ELINCS): 203-377-1 EC index number: 603-241- 00-5	80 – 90	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Geranyl acetate	CAS: 105-87-3 EC No (EC/EINECS/ELINCS): 203-341-5	10 – 20	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Linalool	CAS: 78-70-6 EC No (EC/EINECS/ELINCS): 201-134-4 EC index number: 603-235- 00-2	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
d-Limonene	CAS: 5989-27-5 EC No (EC/EINECS/ELINCS): 227-813-5 EC index number: 601-096- 00-2	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
cis-beta-Ocimene	CAS: 3338-55-4 EC No (EC/EINECS/ELINCS): 222-081-3	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
beta-Caryophyllene	CAS: 87-44-5 EC No (EC/EINECS/ELINCS): 201-746-1	1 – 5	Skin Sens. 1B, H317 Asp. Tox. 1, H304
trans beta-Ocimene	CAS: 3779-61-1 EC No (EC/EINECS/ELINCS): 223-241-5	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Farnesol	CAS: 4602-84-0 EC No (EC/EINECS/ELINCS): 225-004-1	1 – 5	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 1, H410 Aquatic Acute 1, H400
Nerol	CAS: 106-25-2 EC No (EC/EINECS/ELINCS): 203-378-7	0.1 - 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
citral	CAS: 5392-40-5 EC No (EC/EINECS/ELINCS): 226-394-6 EC index number: 605-019- 00-3	0.1 - 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Myrcene	CAS: 123-35-3 EC No (EC/EINECS/ELINCS): 204-622-5	0.1 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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 general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.

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First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs:
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact	: May cause an allergic skin reaction. : Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.

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

No additional information available

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Foam. Dry powder. Carbon dioxide. Water spray. Sand.</li><li>Do not use a heavy water stream.</li></ul>			
5.2. Special hazards arising from th	e substance or mixture			
No additional information available				
5.3. Advice for firefighters				
The first time in the other				

Firelignung instructions	: Use water spray or log for cooling exposed containers. Exercise caution when lighting an	iy
	chemical fire. Prevent fire fighting water from entering the environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protectio	n.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
Protective equipment Emergency procedures	<ul><li>Equip cleanup crew with proper protection.</li><li>Stop release. Ventilate area.</li></ul>			

#### 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 Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: 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. Avoid breathing dust/fume/gas/mist/vapours/spray.		
Hygiene measures	: Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.		
Incompatible products	: Strong bases. Strong acids.		
Incompatible materials	: Sources of ignition. Direct sunlight.		
Maximum storage period	: 24 months		
Storage temperature	: ≤ 25 °C		
Storage area	: Store in a well-ventilated place.		
Special rules on packaging	: Keep in the dark. Store tightly closed in a dry, cool and well-ventilated place. Product must only be kept in the original packaging.		

### 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

No additional information available

#### 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

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#### 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:** Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

#### 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	: Liguid
Colour	: Pale yellow to yellow.
Appearance	: Liquid.
Odour	: Caracteristic, rosy with an herbaceous note.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point (closed cup)	: 100 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Specific gravity (20°C)	: 0.8800 - 0.8940
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

#### 9.2. Other information

No additional information available

#### 9.2.2. Other safety characteristics

Refractive index (20°C)

: 1.4710 - 1.4780

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

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10.2. Chemical stability
Not established.
10.3. Possibility of hazardous reactions
Not established.
10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials

Strong acids. Strong bases.

**10.6. Hazardous decomposition products** 

fume. Carbon monoxide. Carbon dioxide.

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				
Geraniol (106-24-1)				
LD50 oral rat	3600 mg/kg bodyweight Animal: rat, 95% CL: 2840 - 4570			
LD50 oral	3600 mg/kg bodyweight			
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit			
Geranyl acetate (105-87-3)				
LD50 oral rat	6330 mg/kg bodyweight Animal: rat, 95% CL: 5450 - 7340			
Linalool (78-70-6)				
LD50 oral rat	2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2440 - 3180			
LD50 oral	2790 mg/kg bodyweight			
LD50 dermal rabbit	5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374			
cis-beta-Ocimene (3338-55-4)				
LD50 oral	5000 mg/kg bodyweight			
trans beta-Ocimene (3779-61-1)				
LD50 oral	5000 mg/kg bodyweight			
Farnesol (4602-84-0)				
LD50 oral rat	> 5000 mg/kg Source: HSDB;			
Nerol (106-25-2)				
LD50 oral rat	4500 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 3400 - 5600			
LD50 oral	4500 mg/kg bodyweight			
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit			

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d-Limonene (5989-27-5)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
LD50 dermal rabbit	> 5000 mg/kg Source: National Library of Medicine	
citral (5392-40-5)		
LD50 oral rat	≈ 6800 mg/kg bodyweight Animal: rat	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat	
LD50 dermal rabbit	2250 mg/kg	
LD50 dermal	2250 mg/kg bodyweight	
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)	
Skin corrosion/irritation:Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:Additional information:Carcinogenicity:	Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Not classified Based on available data, the classification criteria are not met Not classified	
Additional information :	Based on available data, the classification criteria are not met	
d-Limonene (5989-27-5)		
IARC group	3 - Not classifiable	
Geraniol (106-24-1)		
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)	
citral (5392-40-5)		
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)	
Reproductive toxicity:Additional information:STOT-single exposure:Additional information:STOT-repeated exposure:Additional information:	Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met	
Geraniol (106-24-1)		
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: other:OECD Guideline 421 (Reproduction/Developmental Toxicity Screening test), Guideline: other:EPA OPPTS 870.3550 (Reproduction/Developmental Toxicity Screening Test)	
Geranyl acetate (105-87-3)		
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:Specifications for the Conduct of Studies to Evaluate the Toxic and Carcinogenic Potential of Chemical, Biological, and Physical Agents in Laboratory Animals for the National Toxicology Program (NTP)	

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Linalool (78-70-6)				
NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)			
citral (5392-40-5)				
LOAEC (inhalation, rat, gas, 90 days)	68 ppm Animal: rat, Animal sex: female			
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)			
NOAEC (inhalation, rat, gas, 90 days)	34 ppm Animal: rat, Animal sex: female			
NOAEL (subchronic, oral, animal/male, 90 days)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)			
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 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 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 in Rodents)			
Aspiration hazard : Not classified				
Additional information : Based on available data, the classification criteria are not met				
Linalool (78-70-6)				
Viscosity, kinematic	5.192 mm²/s			
11.2. Information on other hazards				
11.2.1. Endocrine disrupting properties No additional information available				

### 11.2.2. Other information

Potential adverse human health effects and	:	Based on available data, the classification criteria are not met
symptoms		

SECTION 12: Ecological information			
12.1. Toxicity			
Hazardous to the aquatic environment, short-term : (acute)	Harmful to aquatic life with long lasting effects. Not classified		
Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects. (chronic)			
Geraniol (106-24-1)			
LC50 - Fish [1]	≈ 22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
EC50 - Crustacea [1]	10.8 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	13.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
Geranyl acetate (105-87-3)			
LC50 - Fish [1]	68.12 mg/l Test organisms (species): Leuciscus idus		
EC50 - Crustacea [1]	14.1 mg/l Test organisms (species): Daphnia magna		

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Geranyl acetate (105-87-3)					
EC50 72h - Algae [1]	3.72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)				
Linalool (78-70-6)					
LC50 - Fish [1]	27.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)				
EC50 - Crustacea [1]	59 mg/l Test organisms (species): Daphnia magna				
EC50 96h - Algae [1]	88.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)				
EC50 96h - Algae [2]	156.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)				
Farnesol (4602-84-0)					
LC50 - Fish [1]	1.8 mg/l				
EC50 - Crustacea [1]	2.2 mg/l				
Nerol (106-25-2)					
LC50 - Fish [1]	≈ 22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)				
EC50 - Crustacea [1]	10.8 mg/l Test organisms (species): Daphnia magna				
EC50 72h - Algae [1]	13.9 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)				
d-Limonene (5989-27-5)					
LC50 - Fish [1]	720 μg/l Test organisms (species): Pimephales promelas				
EC50 - Crustacea [1]	0.36 mg/l Test organisms (species): Daphnia magna				
EC50 72h - Algae [1]	≈ 8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)				
NOEC (chronic)	0.115 mg/l Test organisms (species): other:For freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex. Duration: '16 d'				
citral (5392-40-5)					
LC50 - Fish [1]	6.78 mg/l Test organisms (species): Leuciscus idus				
EC50 - Crustacea [1]	6.8 mg/l Test organisms (species): Daphnia magna				
EC50 72h - Algae [1]	103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)				
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)				
12.2. Persistence and degradability					
PALMAROSA EO INDIA (106-24-1)					
Persistence and degradability	May cause long-term adverse effects in the environment.				

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12.3. Bioaccumulative potential	12.3. Bioaccumulative potential		
PALMAROSA EO INDIA (106-24-1)			
Bioaccumulative potential	Not established.		
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		
Farnesol (4602-84-0)			
Partition coefficient n-octanol/water (Log Pow)	5.77 Source: EPISUITE		
Nerol (106-25-2)			
Partition coefficient n-octanol/water (Log Pow)	3.47		
d-Limonene (5989-27-5)			
Partition coefficient n-octanol/water (Log Pow)	4.38 Source: ECHA Registered substances		
citral (5392-40-5)			
Partition coefficient n-octanol/water (Log Pow)	3.45		
Myrcene (123-35-3)			
Partition coefficient n-octanol/water (Log Pow)	4.17		
12.4. Mobility in soil			
Linalool (78-70-6)			
Mobility in soil	76 Source: HSDB		
Farnesol (4602-84-0)			
Mobility in soil	5072 Source: EPISUITE		
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	
Regional legislation (waste) Product/Packaging disposal recommendations	<ul> <li>Disposal must be done according to official regulations.</li> <li>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.</li> </ul>
Ecology - waste materials	: Avoid release to the environment.

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SECTION 14: Transport information				
n accordance with ADR / IMDG / IATA / ADN / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments

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

## **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

## REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

## **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

## PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

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#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### Germany

Danish National Regulations	for the storage of flammable liquids must be followed : Young people below the age of 18 years are not allowed to use the product
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines
Store unit	: 50 liter
Class for fire hazard	: Class III-1
Denmark	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
Netherlands	
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 2852).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	SDS EU format	Modified	
	Revision date	Modified	
	Supersedes	Modified	
3	Composition/information on ingredients	Modified	

#### 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

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

None.

# Safety Data Sheet

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

Full text of H- and EUH-statements:	
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 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.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

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.