

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 2/21/2024 Version: 1.0

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

1.1. Product identifier

Product form :	Substance (UVCB)
Substance name :	EO Geranium Egypt
IUPAC name :	Pelargonium graveolens, ext.
EC-No. :	290-140-0
CAS-No. :	90082-51-2
Product code :	20130
Product group :	Trade product

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

1.2.1. Relevant identified uses

Intended for general public

Main use category Use of the substance/mixture Professional use,Consumer useFragrance raw material

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

De Hekserij Spoorstraat 57 8271 RG IJsselmuiden Nederland www.hekserij.nl

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
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard,	H412
Category 3	
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. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

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Hazard statements (CLP)	 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.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P273 - Avoid release to the environment.
	P280 - Wear eye protection, face protection, protective gloves.
	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P331 - Do NOT induce vomiting.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P405 - Store locked up.
	P501 - Dispose of contents and container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type	: UVCB
Name	: EO Geranium Egypt
CAS-No.	: 90082-51-2
EC-No.	: 290-140-0

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
EO Geranium Egypt	CAS-No.: 90082-51-2 EC-No.: 290-140-0	100	See section 2.1
Citronellol	CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995- 23	28 – 38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Nerol	CAS-No.: 106-25-2 EC-No.: 203-378-7	28 – 38	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
GERANIOL	CAS-No.: 106-24-1 EC-No.: 203-377-1	10 – 20	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016- 42	3.5 – 9.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Citronellyl Formate	CAS-No.: 105-85-1 EC-No.: 203-338-9	3.8 - 8.8	Skin Irrit. 2, H315 Skin Sens. 1B, H317
Isomenthone	CAS-No.: 491-07-6 EC-No.: 207-727-4	4 – 8.5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
epi-eudesmol	CAS-No.: 15051-81-7 EC-No.: 866-515-5	3.2 - 6.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Neryl formate	CAS-No.: 2142-94-1 EC-No.: 218-401-6	0 – 5	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Geranyl formate	CAS-No.: 105-86-2 EC-No.: 203-339-4	2 – 4.5	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Germacrene D	CAS-No.: 37839-63-7 EC-No.: 817-191-9	0 – 3	Asp. Tox. 1, H304
Caryophyllene beta	CAS-No.: 87-44-5 EC-No.: 201-746-1	0 – 2.5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Citronellyl butyrate	CAS-No.: 141-16-2 EC-No.: 205-463-4	0 – 2	Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
cis Rose oxide	CAS-No.: 16409-43-1 EC-No.: 240-457-5	0.8 – 1.4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361
Pinene alpha	CAS-No.: 80-56-8 EC-No.: 201-291-9	0 – 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
Myrcene	CAS-No.: 123-35-3 EC-No.: 204-622-5	0 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 First-aid measures after inhalation First-aid measures after skin contact	 Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. 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 First-aid measures after ingestion	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Do not induce vomiting. Call a physician immediately. 		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. Irritation. May cause an allergic skin reaction. Serious damage to eyes. Risk of lung oedema. 		

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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 Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released. 	
5.3. Advice for firefighters		
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. 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	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.		
6.1.1. For non-emergency personnel			
	 Wear recommended personal protective equipment. 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 Emergency procedures	 Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Evacuate unnecessary personnel. Stop leak if safe to do so. 		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment and cleaning up			
For containment Methods for cleaning up Other information	 Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. Take up liquid spill into absorbent material. 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	
Additional hazards when processed Precautions for safe handling	 Not expected to present a significant hazard under anticipated conditions of normal use. 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.

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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 :	Keep in a cool, well-ventilated place away from heat. Store locked up. Store always product in container of same material as original container.	

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.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

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
Colour	: light yellow. Yellow.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -20 °C
Boiling point	: 224.1 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 85 °C
Auto-ignition temperature	: 240 °C
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: Not available
Solubility	: Ethanol: 1:3 soluble in 70% ethanol
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 3.5 Temp.: 25 °C
Vapour pressure	: 39.3 Pa Temp.: 24 °C
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.889 (≥ 0.91) Temp.: 20 °C
Relative vapour density at 20°C	: Not available
Particle characteristics	: 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

No additional information available

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).

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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 hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity (dermal) :	Not classified Not classified Not classified		
EO Geranium Egypt (90082-51-2)			
LD50 oral rat	> 5000 mg/kg bodyweight		
LD50 dermal rabbit	> 2000 mg/kg bodyweight		
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 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
GERANIOL (106-24-1)			
LD50 oral rat	≈ 3600 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		
Linalool (78-70-6)			
LD50 oral rat	2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 2440 - 3180		
LD50 dermal rabbit	5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374		
Citronellyl Formate (105-85-1)			
LD50 oral rat	> 6800 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)		
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
Caryophyllene beta (87-44-5)			
LD50 oral	> 5000 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: not determinable due to absence of adverse toxic effects		
cis Rose oxide (16409-43-1)			
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit		
Pinene alpha (80-56-8)			
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))		

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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/l Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation : Serious eye damage/irritation : Respiratory or skin sensitisation : Germ cell mutagenicity : Carcinogenicity : Reproductive toxicity : cis Rose oxide (16409-43-1) NOAEL (animal/male, F0/P) NOAEL (animal/female, F0/P)	Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Not classified Not classified 100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:, Guideline: other: 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:, Guideline: other:
STOT-single exposure : STOT-repeated exposure :	Not classified Not classified
Citronellol (106-22-9)	
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.063 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
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)
Citronellyl Formate (105-85-1)	
NOAEL (oral, rat, 90 days)	800 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Remarks on results: 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 :	May be fatal if swallowed and enters airways.
Nerol (106-25-2)	
Viscosity, kinematic	10.37 mm²/s at 20 °C
Linalool (78-70-6)	
Viscosity, kinematic	5191.86 mm²/s
11.2. Information on other hazards	

No additional information available

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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 Harmful to aquatic life with long lasting effects.	
EO Geranium Egypt (90082-51-2)		
EC50 - Crustacea [1]	14.5 mg/l Test organisms: Daphnia	
EC50 72h - Algae [1]	30.4 mg/l	
NOEC chronic algae	15.7 mg/l	
Citronellol (106-22-9)	·	
LC50 - Fish [1]	14.66 mg/l Test organisms (species): Leuciscus idus	
EC50 - Crustacea [1]	17.48 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	2.4 mg/l Test organisms (species):	
Nerol (106-25-2)		
LC50 - Fish [1]	20.3 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	32.4 mg/l Test organisms (species): Daphnia magna	
GERANIOL (106-24-1)		
LC50 - Fish [1]	≈ 22 mg/l	
EC50 - Crustacea [1]	≈ 10.8 ml/l	
ErC50 algae	≈ 13.1 mg/l	
NOEC chronic fish	≈ 10 mg/l	
NOEC chronic algae	≈ 1 ml/l	
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)	
Citronellyl Formate (105-85-1)		
LC50 - Fish [1]	1.3 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	7.6 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	3.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	1.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
Geranyl formate (105-86-2)		
EC50 - Crustacea [1]	2.3 mg/l Test organisms (species): Daphnia magna	

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C50 72h - Algae [1]	
	0.23 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
C50 72h - Algae [2]	0.22 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
aryophyllene beta (87-44-5)	
C50 - Crustacea [1]	> 0.17 mg/l Test organisms (species): Daphnia magna
C50 72h - Algae [1]	> 0.033 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
itronellyl butyrate (141-16-2)	
C50 - Crustacea [1]	0.41 mg/l Test organisms (species): Daphnia magna
C50 72h - Algae [1]	> 0.16 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
C50 72h - Algae [2]	0.1 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
is Rose oxide (16409-43-1)	
C50 - Fish [1]	77.6 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
C50 - Crustacea [1]	33.2 mg/l Test organisms (species): Daphnia magna
C50 72h - Algae [1]	36 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
C50 72h - Algae [2]	79.7 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
inene alpha (80-56-8)	
C50 - Fish [1]	0.303 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
C50 - Crustacea [1]	0.475 mg/l Test organisms (species): Daphnia magna
lyrcene (123-35-3)	
C50 - Crustacea [1]	1.47 mg/l Test organisms (species): Daphnia magna
C50 72h - Algae [1]	0.342 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
C50 72h - Algae [2]	0.31 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
2.2. Persistence and degradability	
O Geranium Egypt (90082-51-2)	
ersistence and degradability	Not rapidly degradable
itronellol (106-22-9)	
ersistence and degradability	Not rapidly degradable
lerol (106-25-2)	

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Linalool (78-70-6)	
Persistence and degradability	Not rapidly degradable
Citronellyl Formate (105-85-1)	
Persistence and degradability	Not rapidly degradable
Isomenthone (491-07-6)	
Persistence and degradability	Not rapidly degradable
epi-eudesmol (15051-81-7)	
Persistence and degradability	Not rapidly degradable
Neryl formate (2142-94-1)	
Persistence and degradability	Not rapidly degradable
Geranyl formate (105-86-2)	
Persistence and degradability	Not rapidly degradable
Germacrene D (37839-63-7)	
Persistence and degradability	Not rapidly degradable
Caryophyllene beta (87-44-5)	
Persistence and degradability	Not rapidly degradable
Citronellyl butyrate (141-16-2)	
Persistence and degradability	Not rapidly degradable
cis Rose oxide (16409-43-1)	
Persistence and degradability	Not rapidly degradable
Pinene alpha (80-56-8)	
Persistence and degradability	Not rapidly degradable
Myrcene (123-35-3)	
Persistence and degradability	Not rapidly degradable
12.3. Bioaccumulative potential	
EO Geranium Egypt (90082-51-2)	
Partition coefficient n-octanol/water (Log Pow)	3.5 Temp.: 25 °C
Citronellol (106-22-9)	
BCF - Fish [1]	82.59
Partition coefficient n-octanol/water (Log Pow)	3.3
Nerol (106-25-2)	
Partition coefficient n-octanol/water (Log Kow)	2.76 pH value: ~6.5, 30 °C
GERANIOL (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	≈ 2.6
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	≥ 2.84

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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

No additional information available

SECTION 13: Disposal considerations				
13.1. Waste treatment me	ethods			
Regional waste regulation Waste treatment methods Sewage disposal recommend Product/Packaging disposal re Additional information	: Dis ations : Dis ecommendations : Dis	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Disposal must be done according to official regulations. Do not re-use empty containers. 		
SECTION 14: Transpo	rt information			
In accordance with ADR / IMD	9G / IATA / ADN / RID			
ADR	IMDG	ΙΑΤΑ	ADN	RID

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number or ID n	14.1. UN number or ID number				
Not regulated for transport					
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	d 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

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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)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	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)	EO Geranium Egypt ; Citronellol ; Nerol ; GERANIOL ; Linalool ; Citronellyl Formate ; Isomenthone ; epi- eudesmol ; Neryl formate ; Geranyl formate ; Germacrene D ; Caryophyllene beta ; Citronellyl butyrate ; cis Rose oxide ; Pinene alpha ; 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)	EO Geranium Egypt ; Isomenthone ; Neryl formate ; Geranyl formate ; Caryophyllene beta ; Citronellyl butyrate ; 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 class 4.1
40.	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.

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)

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)

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Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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

Netherlands

SZW-lijst van kankerverwekkende stoffen		The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	The substance is not listed
SZW-lijst van reprotoxische stoffen –		The substance is not listed
Vruchtbaarheid		
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	The substance is not listed

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	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	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	
OECD	Organisation for Economic Co-operation and Development	

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Abbreviations and acronyms:		
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
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 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.
H302	Harmful if swallowed.
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.
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.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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Full text of H- and EUH-statements:	
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.