



OIL, GREEN TEA*

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 7/11/2018 Revision date: 9/9/2019 Supersedes: 9/9/2019 Version: 1.3

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

1.1. Product identifier

Product form : Mixture
Product name : OIL, GREEN TEA*
CAS-No. : N/A
Product code : 90-2245-03
Product group : Trade product

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

The Lebermuth Company
4004 Technology Drive
46628 South Bend, IN - United States
T 574-259-7000 - F 574-258-7450
info@lebermuth.com - www.lebermuth.com

1.4. Emergency telephone number

Emergency number : CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300
CCN 13010

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:vapour) Category 4	H332
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation Category 2	H319
Skin sensitization, Category 1	H317
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

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

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

: Warning

Hazardous ingredients

: BETA PINENE; CITRAL ; CITRONELLOL; 2-Methyl-3-(p-isopropylphenyl)propionaldehyde; DIPROPYLENE GLYCOL; DIETHYL PHTHALATE; HYDROXYCITRONELLAL ; LINALOOL; LINALYL ACETATE; ESTRAGOLE; LEMON OIL TERPENES; LEMON OIL; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone; GERANYL ACETATE ; ORANGE OIL; PETITGRAIN OIL

Hazard statements (CLP)

: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
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.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
LINALYL ACETATE	(CAS-No.) 115-95-7 (EC-No.) 204-116-4	10 - 25	Skin Irrit. 2, H315 Skin Sens. 1B, H317
LINALOOL	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
LEMON OIL	(CAS-No.) 8008-56-8 (EC-No.) 284-515-8	5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
LEMON OIL TERPENES	(CAS-No.) 68917-33-9 (EC-No.) 614-796-8	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
CITRONELLOL	(CAS-No.) 106-22-9 (EC-No.) 203-375-0	1 - 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317
DIETHYL PHTHALATE	(CAS-No.) 84-66-2 (EC-No.) 201-550-6	1 - 5	Acute Tox. 3 (Inhalation:vapour), H331 Aquatic Chronic 3, H412
HYDROXYCITRONELLAL	(CAS-No.) 107-75-5 (EC-No.) 203-518-7	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	(CAS-No.) 54464-57-2 (EC-No.) 259-174-3	1 - 5	Aquatic Chronic 1, H410 Skin Irrit. 2, H315 Skin Sens. 1B, H317
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran	(CAS-No.) 1222-05-5 (EC-No.) 214-946-9 (EC Index-No.) 603-212-00-7	1 - 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-Methyl-3-(p-isopropylphenyl)propionaldehyde	(CAS-No.) 103-95-7 (EC-No.) 203-161-7	1 - 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
BETA IONONE	(CAS-No.) 14901-07-6 (EC-No.) 238-969-9	1 - 5	Aquatic Chronic 2, H411
trans-Anethole	(CAS-No.) 4180-23-8 (EC-No.) 224-052-0	0.1 - 1	Skin Sens. 1B, H317

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CITRAL	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317
ESTRAGOLE	(CAS-No.) 140-67-0 (EC-No.) 205-427-8	0.1 - 1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Muta. 2, H341 Skin Sens. 1B, H317
PETITGRAIN OIL	(CAS-No.) 8014-17-3 (EC-No.) 284-521-0	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
BETA PINENE	(CAS-No.) 127-91-3 (EC-No.) 204-872-5	0.25 - 0.375	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GERANYL ACETATE	(CAS-No.) 105-87-3 (EC-No.) 203-341-5	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
ORANGE OIL	(CAS-No.) 8028-48-6 (EC-No.) 232-433-8	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician 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	: Eye irritation.

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 : Water spray. Dry powder. Foam. Carbon dioxide.

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 breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

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.

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6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material.
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	: Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
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.
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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BETA PINENE (127-91-3)

Belgium - Occupational Exposure Limits

Local name	Essence de térébenthine et monoterpènes sélectionés
Limit value (ppm)	20 ppm

Spain - Occupational Exposure Limits

Local name	β -pineno
VLA-ED (mg/m ³)	113 mg/m ³
VLA-ED (ppm)	20 ppm

USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (ppm)	20 ppm
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CITRAL (5392-40-5)

Spain - Occupational Exposure Limits

Local name	Citral
VLA-ED (ppm)	5 ppm

Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), Sen (Sensibilizante. Véase Apartado 6), FIV (Fracción inhalable y vapor. La notación FIV señala a aquellos agentes químicos que se pueden presentar en el ambiente de trabajo, tanto en forma de materia particulada como vapor, por lo que las dos fases pueden coexistir, contribuyendo ambas a la exposición. Esta situación se puede dar, principalmente, en los siguientes casos: • Cuando el agente en cuestión tiene un valor "intermedio" de presión de vapor (en estos casos se tiene en cuenta la relación entre su concentración en el aire saturado de vapor y el valor del VLA-ED® y la nota se asigna, generalmente, cuando el cociente entre ambas cantidades se encuentra entre 0.1 y 10). • Por razón de la forma de uso del agente químico (por ejemplo, pulverización). • En los procesos que conlleven cambios importantes de temperatura que puedan afectar al estado físico del agente químico. • En los procesos en los que una fracción significativa del vapor puede disolverse o adsorberse en las partículas de otra sustancia, a semejanza de lo que ocurre con los agentes solubles en agua en ambientes con humedad elevada. Para mayor información, véase C. Perez and S. C. Soderholm. Some chemicals requiring special consideration when deciding whether to sample the particle, vapor, or both phases of an atmosphere. Appl. Occup. Environ. Hyg. 6 (10), 859-864. 1991).
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USA - ACGIH - Occupational Exposure Limits

Local name	Citral
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ACGIH TWA (ppm)	5 ppm
Remark (ACGIH)	Body weight eff; URT irr; eye dam; Skin; DSEN; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)

DIETHYL PHTHALATE (84-66-2)

Belgium - Occupational Exposure Limits

Local name	Phtalate de diéthyle # p-Di-ethylfalaat
Limit value (mg/m ³)	5 mg/m ³

France - Occupational Exposure Limits

Local name	Phtalate de diéthyle
VME (mg/m ³)	5 mg/m ³
Note (FR)	Valeurs recommandées/admises

Spain - Occupational Exposure Limits

Local name	Ftalato de dietilo
VLA-ED (mg/m ³)	5 mg/m ³

United Kingdom - Occupational Exposure Limits

Local name	Diethyl phthalate
WEL TWA (mg/m ³)	5 mg/m ³
WEL STEL (mg/m ³)	10 mg/m ³

USA - ACGIH - Occupational Exposure Limits

Local name	Diethyl phthalate
ACGIH TWA (mg/m ³)	5 mg/m ³
Remark (ACGIH)	URT irr

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:

Wear respiratory protection.

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
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available

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Boiling point	: No data available
Flash point	: 72 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.95 (0.940 - 0.960)
Solubility	: Insoluble.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

Refractive index	: 1.461 (1.451 - 1.471)
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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)	: Harmful if inhaled.

OIL, GREEN TEA* (N/A)

ATE CLP (vapors)	11.18 mg/l/4h
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BETA PINENE (127-91-3)

LD50 oral rat	4700 mg/kg (Rat, Oral)
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CITRAL (5392-40-5)

LD50 dermal	2250 mg/kg body weight
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CITRONELLOL (106-22-9)

LD50 oral rat	3450 mg/kg (Rat, Inconclusive, insufficient data, Oral)
LD50 oral	3450 mg/kg body weight
LD50 dermal rabbit	2650 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LD50 dermal	2650 mg/kg body weight

2-Methyl-3-(p-isopropylphenyl)propionaldehyde (103-95-7)

LD50 oral rat	3810 mg/kg (Rat, Oral)
LD50 oral	3810 mg/kg body weight

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LD50 dermal rat	> 5000 mg/kg (Rat, Dermal)
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DIETHYL PHTHALATE (84-66-2)

LD50 oral rat	8600 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit, Dermal)
LC50 inhalation rat (mg/l)	> 5 mg/l (4 h, Rat, Inhalation)

HYDROXYCITRONELLAL (107-75-5)

LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)

LINALOOL (78-70-6)

LD50 oral rat	2790 mg/kg (Rat)
LD50 oral	2790 mg/kg body weight
LD50 dermal rat	5610 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)

ESTRAGOLE (140-67-0)

LD50 oral rat	1820 mg/kg (Rat, Oral)
LD50 oral	1230 mg/kg body weight

trans-Anethole (4180-23-8)

LD50 oral rat	2090 mg/kg (Rat, Oral)
LD50 oral	3000 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

GERANYL ACETATE (105-87-3)

LD50 oral rat	6300 mg/kg (Rat, Oral)
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ORANGE OIL (8028-48-6)

LD50 oral rat	> 5000 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)

PETITGRAIN OIL (8014-17-3)

LD50 oral	4311 mg/kg body weight
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BETA IONONE (14901-07-6)

LD50 oral rat	4590 mg/kg (Rat, Oral)
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: 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
Aspiration hazard	: Not classified

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SECTION 12: Ecological information

12.1. Toxicity

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

BETA PINENE (127-91-3)

LC50 fish 1	0.557 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Weight of evidence, GLP)
EC50 Daphnia 1	1.248 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Weight of evidence, GLP)
ErC50 (algae)	0.826 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, GLP)

CITRONELLOL (106-22-9)

LC50 fish 1	10 - 22 mg/l (96 h, Leuciscus idus)
EC50 Daphnia 1	17 mg/l (48 h, Daphnia magna)
EC50 72h algae [mg/l] 1	2.4 mg/l (Algae)

DIETHYL PHTHALATE (84-66-2)

LC50 fish 1	17 ppm (96 h, Pimephales promelas, Flow-through system)
EC50 Daphnia 1	52 mg/l (48 h, Daphnia magna)
EC50 72h algae [mg/l] 1	23 mg/l (Scenedesmus subspicatus, Growth)

LINALOOL (78-70-6)

LC50 fish 2	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
EC50 Daphnia 1	59 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
EC50 other aquatic organisms 1	>= 100 mg/l (3 h; Activated sludge)
Threshold limit algae 1	88.3 mg/l (EC50; 96 h)

LINALYL ACETATE (115-95-7)

LC50 fish 1	11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio)
EC50 Daphnia 1	15 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)
EC50 72h algae [mg/l] 1	16 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus)

GERANYL ACETATE (105-87-3)

LC50 fish 1	68.12 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Read-across)
EC50 Daphnia 1	14.1 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	3.72 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

ORANGE OIL (8028-48-6)

LC50 fish 1	702 µg/l (LC50; Equivalent or similar to OECD 203; 96 h; Pimephales promelas; Flow-through system; Fresh water; Read-across)
EC50 Daphnia 1	0.67 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

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BETA IONONE (14901-07-6)	
LC50 fish 1	5.1 mg/l (96 h, Pimephales promelas)

12.2. Persistence and degradability

BETA PINENE (127-91-3)	
Persistence and degradability	Readily biodegradable in water.

CITRONELLOL (106-22-9)

Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O ₂ /g substance
ThOD	2.961 g O ₂ /g substance

2-Methyl-3-(p-isopropylphenyl)propionaldehyde (103-95-7)

Persistence and degradability	Biodegradability in water: no data available.
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DIETHYL PHTHALATE (84-66-2)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
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HYDROXYCITRONELLAL (107-75-5)

Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.65 g O ₂ /g substance

LINALOOL (78-70-6)

Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.531 g O ₂ /g substance
Chemical oxygen demand (COD)	2.808 g O ₂ /g substance

LINALYL ACETATE (115-95-7)

Persistence and degradability	Readily biodegradable in water.
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ESTRAGOLE (140-67-0)

Persistence and degradability	Biodegradability in soil: no data available.
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GERANYL ACETATE (105-87-3)

Persistence and degradability	Readily biodegradable in water.
ThOD	2.6 g O ₂ /g substance

BETA IONONE (14901-07-6)

Persistence and degradability	Readily biodegradable in water.
ThOD	2.91 g O ₂ /g substance

12.3. Bioaccumulative potential

BETA PINENE (127-91-3)	
BCF other aquatic organisms 1	1125 (BCFBAF v3.00, Fresh water, QSAR, Fresh weight)
Log Pow	4.425 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

CITRONELLOL (106-22-9)

Log Pow	3.41 - 3.91
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2-Methyl-3-(p-isopropylphenyl)propionaldehyde (103-95-7)

Bioaccumulative potential	No bioaccumulation data available.
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DIETHYL PHTHALATE (84-66-2)

BCF fish 1	15 - 16 (Mugil cephalus)
BCF fish 2	117.5 (504 h, Lepomis macrochirus)
BCF other aquatic organisms 1	1100 ppb (Ostreidae, Fresh weight)
BCF other aquatic organisms 2	340 - 450 ppb (Lamellibranchiata, Fresh weight)
Log Pow	1.4 - 2.82
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

HYDROXYCITRONELLAL (107-75-5)

Log Pow	2.11 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

LINALOOL (78-70-6)

Log Pow	2.84 - 3.145
Bioaccumulative potential	Bioaccumable.

LINALYL ACETATE (115-95-7)

Log Pow	3.93 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

ESTRAGOLE (140-67-0)

Bioaccumulative potential	No bioaccumulation data available.
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GERANYL ACETATE (105-87-3)

BCF other aquatic organisms 1	1500 (Estimated value)
Log Pow	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).

ORANGE OIL (8028-48-6)

BCF other aquatic organisms 1	32 - 395 (BCF; BCFWIN)
Log Pow	2.78 - 4.88 (QSAR; KOWWIN)

BETA IONONE (14901-07-6)

Log Pow	4.1
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12.4. Mobility in soil

BETA PINENE (127-91-3)

Log Koc	3.01 - 3.82 (log Koc, Calculated value)
Ecology - soil	Low potential for mobility in soil.

DIETHYL PHTHALATE (84-66-2)

Surface tension	0.0375 N/m (20 °C)
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LINALYL ACETATE (115-95-7)	
Ecology - soil	Adsorbs into the soil.

GERANYL ACETATE (105-87-3)	
Log Koc	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

Component	
(127-91-3)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
(105-87-3)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII

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 / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: UN 3082
UN-No. (IMDG)	: UN 3082
UN-No. (IATA)	: UN 3082
UN-No. (ADN)	: UN 3082
UN-No. (RID)	: UN 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III
Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Transport document description (RID)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 9
Hazard labels (ADR)	: 9



IMDG

Transport hazard class(es) (IMDG)	: 9
Hazard labels (IMDG)	: 9



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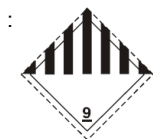
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IATA

Transport hazard class(es) (IATA) : 9

Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9

Hazard labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9

Hazard labels (RID) : 9



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provision (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions (ADR) : TP1, TP29

Tank code (ADR) : LGBV

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12

Special provisions for carriage - Loading, unloading and handling (ADR) : CV13

Hazard identification number (Kemler No.) : 90

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Orange plates



Tunnel restriction code (ADR) : -
EAC : •3Z

Transport by sea

Special provision (IMDG) : 274, 335, 969
Packing instructions (IMDG) : P001, LP01
Packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provision (IATA) : A97, A158, A197
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provision (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provision (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

Contains no substance 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.

Contains no substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : LEMON ARGENTINA OIL,ORANGE SWEET OIL,PETITGRAIN TERPENELESS are listed

SZW-lijst van mutagene stoffen : LEMON ARGENTINA OIL,ORANGE SWEET OIL,PETITGRAIN TERPENELESS are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-phrases:	
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
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
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Muta. 2	Germ cell mutagenicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, category 1B
H226	Flammable liquid and vapour
H302	Harmful if swallowed

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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
H331	Toxic if inhaled
H332	Harmful if inhaled
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
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

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.