



OIL, BLACK PLUM TEA*

Safety Data Sheet

according to Regulation (EU) 2015/830
Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Product name : OIL, BLACK PLUM TEA*
CAS-No. : N/A
Product code : 94-4002-75
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]

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

May cause an allergic skin reaction. 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 :

Ethyl methylphenylglycidate; CITRONELLOL; (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one; ALPHA HEXYL CINNAMALDEHYDE ; 1-(2,6,6-Trimethylcyclohexa-1,3-dienyl)-2-buten-1-one; LINALYL ACETATE; ORANGE TERPENES; GERANYL ACETATE ; LINALOOL

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: 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

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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]
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	25 - 50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALPHA HEXYL CINNAMALDEHYDE	(CAS-No.) 101-86-0 (EC-No.) 202-983-3	5 - 10	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
4-(p-Hydroxyphenyl)-2-butanone	(CAS-No.) 5471-51-2 (EC-No.) 226-806-4	1 - 5	Acute Tox. 4 (Oral), H302
LINALOOL	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
ORANGE TERPENES	(CAS-No.) 68647-72-3 (EC-No.) 614-678-6	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINALYL ACETATE	(CAS-No.) 115-95-7 (EC-No.) 204-116-4	1 - 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317
GAMMA UNDECALACTONE	(CAS-No.) 104-67-6 (EC-No.) 203-225-4	1 - 5	Aquatic Chronic 3, H412
Butylated hydroxytoluene	(CAS-No.) 128-37-0 (EC-No.) 204-881-4	0.1 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BUTYL ACETATE substance with a Community workplace exposure limit	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1	0.1 - 1	Flam. Liq. 3, H226 STOT SE 3, H336
AMYL ACETATE substance with a Community workplace exposure limit	(CAS-No.) 628-63-7 (EC-No.) 211-047-3 (EC Index-No.) 607-130-00-2	0.1 - 1	Flam. Liq. 3, H226
2-(p-Menth-1-ene-10-yl)cyclopentanone	(CAS-No.) 95962-14-4 (EC-No.) 404-240-0	0.1 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CITRONELLOL	(CAS-No.) 106-22-9 (EC-No.) 203-375-0	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1B, H317
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	(CAS-No.) 24720-09-0 (EC-No.) 246-430-4	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Ethyl methylphenylglycidate	(CAS-No.) 77-83-8 (EC-No.) 201-061-8	0.1 - 1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
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
1-(2,6,6-Trimethylcyclohexa-1,3-dienyl)-2-buten-1-one	(CAS-No.) 23696-85-7 (EC-No.) 245-833-2	< 0.1	Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Skin Sens. 1A, H317

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

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

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

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

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Butylated hydroxytoluene (128-37-0)

Belgium - Occupational Exposure Limits

Local name	2,6-Di-tert-butyl-p-crésol (vapeur et aérosol) # Di-tert-butyl-4-methylfenol (damp en aérosol)
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Limit value (mg/m ³)	2 mg/m ³
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France - Occupational Exposure Limits

Local name	2,6-Di-tert-butyl-p-crésol
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VME (mg/m ³)	10 mg/m ³
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Note (FR)	Valeurs recommandées/admises
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Germany - Occupational Exposure Limits (TRGS 900)

TRGS 900 Local name	2,6-Di-tert-butyl-p-kresol
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Occupational exposure limit value (mg/m ³)	10 mg/m ³ E (mg/m ³)
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TRGS 900 Remark	DFG,Y,11
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Spain - Occupational Exposure Limits	
Local name	2,6-Diterc-butyl-p-cresol
VLA-ED (mg/m ³)	10 mg/m ³
United Kingdom - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (mg/m ³)	10 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene
ACGIH TWA (mg/m ³)	2 mg/m ³
Remark (ACGIH)	URT irr
BUTYL ACETATE (123-86-4)	
EU - Occupational Exposure Limits	
Local name	n-butyl acetate
Notes	SCOEL Recommendations (Ongoing)
Belgium - Occupational Exposure Limits	
Local name	Acétate de n-butyle # n-Butylacetaat
Limit value (mg/m ³)	723 mg/m ³
Limit value (ppm)	150 ppm
Short time value (mg/m ³)	964 mg/m ³
Short time value (ppm)	200 ppm
France - Occupational Exposure Limits	
Local name	Acétate de n-butyle
VME (mg/m ³)	710 mg/m ³
VME (ppm)	150 ppm
VLE (mg/m ³)	940 mg/m ³
VLE (ppm)	200 ppm
Note (FR)	Valeurs recommandées/admises
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	n-Butylacetat
Occupational exposure limit value (mg/m ³)	300 mg/m ³
Occupational exposure limit value (ppm)	62 ppm
TRGS 900 Remark	AGS,Y
Spain - Occupational Exposure Limits	
Local name	Acetato de n-butilo
VLA-ED (mg/m ³)	724 mg/m ³
VLA-ED (ppm)	150 ppm
VLA-EC (mg/m ³)	965 mg/m ³
VLA-EC (ppm)	200 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Butyl acetate
WEL TWA (mg/m ³)	724 mg/m ³
WEL TWA (ppm)	150 ppm
WEL STEL (mg/m ³)	966 mg/m ³
WEL STEL (ppm)	200 ppm

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USA - ACGIH - Occupational Exposure Limits	
Local name	n-Butyl acetate
ACGIH TWA (ppm)	150 ppm
ACGIH STEL (ppm)	200 ppm
Remark (ACGIH)	Eye & URT irr
ORANGE TERPENES (68647-72-3)	
Belgium - Occupational Exposure Limits	
Limit value (ppm)	20 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	(R)-p-Mentha-1,8-dien (D-Limonen)
Occupational exposure limit value (mg/m ³)	28 mg/m ³
Occupational exposure limit value (ppm)	5 ppm
TRGS 900 Remark	DFG,H,Sh,Y
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	168 mg/m ³ d-Limoneno
VLA-ED (ppm)	30 ppm d-Limoneno
Notes	Entrada en vigor en 2018. Sen (Sensibilizante. Véase Apartado 6), 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).
AMYL ACETATE (628-63-7)	
EU - Occupational Exposure Limits	
Local name	Pentylacetate
IOELV TWA (mg/m ³)	270 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	540 mg/m ³
IOELV STEL (ppm)	100 ppm
Belgium - Occupational Exposure Limits	
Local name	Acétates de pentyle tous isomères # Pentyl acetaat, alle isomeren
Limit value (mg/m ³)	270 mg/m ³
Limit value (ppm)	50 ppm
Short time value (mg/m ³)	540 mg/m ³
Short time value (ppm)	100 ppm
France - Occupational Exposure Limits	
Local name	Acétate de pentyle (acétate de n-amyle)
VME (mg/m ³)	270 mg/m ³
VME (ppm)	50 ppm
VLE (mg/m ³)	540 mg/m ³
VLE (ppm)	100 ppm
Note (FR)	Valeurs réglementaires contraignantes
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Pentylacetat
Occupational exposure limit value (mg/m ³)	270 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
TRGS 900 Remark	DFG,EU,Y

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Italy - Occupational Exposure Limits	
Local name	Acetato di pentile
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
Local name	Acetato de n-amilo
VLA-ED (mg/m ³)	270 mg/m ³
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m ³)	540 mg/m ³
VLA-EC (ppm)	100 ppm
Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
United Kingdom - Occupational Exposure Limits	
Local name	Pentyl acetate
WEL TWA (mg/m ³)	270 mg/m ³ all isomers
WEL TWA (ppm)	50 ppm all isomers
WEL STEL (mg/m ³)	541 mg/m ³ all isomers
WEL STEL (ppm)	100 ppm all isomers
USA - ACGIH - Occupational Exposure Limits	
Local name	Pentyl acetate, all isomers
ACGIH TWA (ppm)	50 ppm

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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

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Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 102 °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	: 0.953 (0.943 - 0.963)
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	: 1.484 (1.474 - 1.494)
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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)	: Not classified

4-(p-Hydroxyphenyl)-2-butanone (5471-51-2)

LD50 oral rat	1320 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

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

(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0)

LD50 oral	1670 mg/kg body weight
LD50 dermal	2900 mg/kg body weight

ALPHA HEXYLCINNAMALDEHYDE (101-86-0)

LD50 oral	3100 mg/kg body weight
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1-(2,6,6-Trimethylcyclohexa-1,3-dienyl)-2-buten-1-one (23696-85-7)

LD50 dermal	2900 mg/kg body weight
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ORANGE TERPENES (68647-72-3)

LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)

GERANYL ACETATE (105-87-3)

LD50 oral rat	6300 mg/kg (Rat, Oral)
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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)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Butylated hydroxytoluene (128-37-0)

IARC group	3 - Not classifiable
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ORANGE TERPENES (68647-72-3)

IARC group	3 - Not classifiable
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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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.

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)

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)

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ORANGE TERPENES (68647-72-3)	
LC50 fish 1	720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	150 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)

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)

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)

12.2. Persistence and degradability

4-(p-Hydroxyphenyl)-2-butanone (5471-51-2)	
Persistence and degradability	Biodegradability in water: no data available.

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

LINALYL ACETATE (115-95-7)	
Persistence and degradability	Readily biodegradable in water.

ORANGE TERPENES (68647-72-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance

GERANYL ACETATE (105-87-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.6 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

12.3. Bioaccumulative potential

4-(p-Hydroxyphenyl)-2-butanone (5471-51-2)	
Bioaccumulative potential	No bioaccumulation data available.

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CITRONELLOL (106-22-9)	
Log Pow	3.41 - 3.91

LINALYL ACETATE (115-95-7)	
Log Pow	3.93 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

ORANGE TERPENES (68647-72-3)	
BCF fish 1	864.8 - 1022 (Pisces, QSAR, Fresh weight)
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

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 ≥ Log Kow ≤ 5).

LINALOOL (78-70-6)	
Log Pow	2.84 - 3.145
Bioaccumulative potential	Bioaccumable.

12.4. Mobility in soil

LINALYL ACETATE (115-95-7)	
Ecology - soil	Adsorbs into the soil.

ORANGE TERPENES (68647-72-3)	
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	
(68647-72-3)	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

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UN-No. (RID) : UN 3082

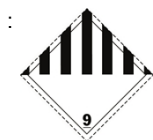
14.2. UN proper shipping name

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



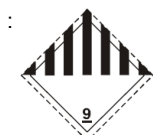
IMDG

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



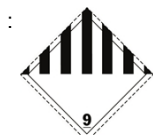
IATA

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



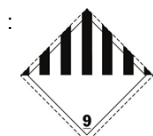
ADN

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

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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
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

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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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
3(a)	AMYL ACETATE ; BUTYL ACETATE ; ORANGE TERPENES
3(b)	OIL, BLACK PLUM TEA* ; Ethyl methylphenylglycidate ; (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one ; ALPHA HEXYL CINNAMALDEHYDE ; CITRONELLOL ; 1-(2,6,6-Trimethylcyclohexa-1,3-dienyl)-2-buten-1-one ; GERANYL ACETATE ; LINALOOL ; LINALYL ACETATE ; BUTYL ACETATE ; ORANGE TERPENES
3(c)	OIL, BLACK PLUM TEA* ; Ethyl methylphenylglycidate ; (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one ; ALPHA HEXYL CINNAMALDEHYDE ; 1-(2,6,6-Trimethylcyclohexa-1,3-dienyl)-2-buten-1-one ; GERANYL ACETATE ; 2-(p-Menth-1-ene-10-yl)cyclopentanone ; ORANGE TERPENES
40.	AMYL ACETATE ; BUTYL ACETATE ; ORANGE TERPENES

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	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components 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

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Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product

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. 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 Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
STOT SE 3	Specific target organ toxicity (single exposure) 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
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
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.