

LIME BASIL MANDARIN #EU42128F

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 06/09/2019 Revision date: 05/05/2026 Version: 5.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: LIME BASIL MANDARIN #EU42128F
UFI	: 6N10-90XG-0001-2191
Product code	: EU42128F
Type of product	: Perfumes, fragrances
Product group	: Trade product

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

Relevant identified uses

Main use category	: Industrial use, Professional use
Industrial/Professional use spec	: For professional use only Industrial
Use of the substance/mixture	: Perfumes, fragrances
Function or use category	: Odour agents

Do not use for purposes other than those specified in this safety data sheet and in the manufacturer's technical documentation. For professional and industrial use only. Do not use for consumer applications, food, feed, cosmetic or medical purposes.

1.3. Details of the supplier of the safety data sheet

UAB „MANFIRA“
Company code: 302812448
Eišiškių pl. 127, LT-02184 Vilnius, Lithuania
Tel.: +370 633 11451
Email: info@craftshop.lt
Website: www.craftshop.lt
Alternative contact email: info@krevo.eu
Alternative website: www.krevo.eu

Email of the person responsible for the safety data sheet: info@uficode.eu
Website: www.uficode.eu

1.4. Emergency telephone number

In case of emergency, contact the national poison centre, emergency medical service or local healthcare provider.

European emergency number: 112

National poison centre / emergency medical information numbers:

Austria: +43 1 406 43 43

Belgium: +32 70 245 245

Bulgaria: 112

Croatia: +385 1 2348 342

Cyprus: 1401

Czech Republic: +420 224 919 293; +420 224 915 402

Denmark: +45 82 12 12 12

Estonia: 16662

Finland: +358 9 471 977; +358 9 4711

France: +33 1 45 42 59 59

Germany: 112 / national poison information centre depending on federal state

Greece: +30 210 779 3777

Hungary: +36 80 201 199

Ireland: +353 1 809 2166; +353 1 809 2566

Italy: 112 / national poison centre depending on region

Latvia: +371 67042473

Lithuania: +370 5 236 2052; +370 687 53378

Luxembourg: +352 8002 5500

Malta: 112

Netherlands: +31 88 755 8000

Poland: 112 / local toxicological information centre

Portugal: +351 800 250 250

Romania: +40 21 318 3606

Slovakia: +421 2 5477 4166

Slovenia: +386 1 522 1293

Spain: +34 91 562 04 20

Sweden: 112 / Swedish Poisons Information Centre

For the current list of national appointed bodies / poison centres in the EU, see:

<https://poisoncentres.echa.europa.eu/appointed-bodies>

Notes:

Availability, scope and language of service may differ by country. Some numbers may be intended for healthcare professionals only. Where no specific public poison centre number is available, contact the European emergency number 112.

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 2	H319
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

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

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Adverse physicochemical, human health and environmental effects

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

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains : Linalool; d-Limonene; Ethyl linalool; Tangerine oil; Grapefruit oil; Hydroxy; Helional; Orange oil ; Lime oil distilled ; Vertenex; Triplal (Vertocitral); Vertofix; Geranyl propionate; OCIMUM BASILICUM FLOWER/LEAF/STEM EXTRACT; Black pepper oil; Vetiver oil

Hazard statements (CLP)

: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
Extra phrases : For professional users only.

2.3. Other hazards

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	1.5 – 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
(R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	CAS-No.: 5989-27-5 EC-No.: 205-341-0 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353-35	1.5 – 3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412
Ethyl linalool	CAS-No.: 10339-55-6 EC-No.: 233-732-6 REACH-no: 01-2119969272-32	1.5 – 3	Eye Irrit. 2, H319 Skin Sens. 1B, H317

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Tangerine oil	CAS-No.: 8016-85-1 EC-No.: 297-672-2	1 – 2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Grapefruit oil	CAS-No.: 8016-20-4 EC-No.: 600-007-4	1 – 2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Methyl ionone (mixture of isomers)	CAS-No.: 1335-46-2 EC-No.: 215-635-0	0.9 – 1.75	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Dihydromyrcenol	CAS-No.: 18479-58-8 EC-No.: 242-362-4 REACH-no: 01-2119457274-37	0.7 – 1.45	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Hydroxy	CAS-No.: 107-75-5 EC-No.: 203-518-7 REACH-no: 01-2119973482-31	0.7 – 1.35	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Helional	CAS-No.: 1205-17-0 EC-No.: 214-881-6 EC Index-No.: 605-042-00-9 REACH-no: 01-2120740119-58	0.6 – 1.2	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 2, H411
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353-35	0.5 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411
Lime oil distilled	CAS-No.: 8008-26-2 EC-No.: 290-010-3 REACH-no: 01-2120138646-51	0.2 – 0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 1, H410 (M=1)
Vertenex	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286-24	0.2 – 0.3	Skin Sens. 1B, H317
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1 EC Index-No.: 605-043-00-4	0.1 – 0.204	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272-42	0.1 – 0.2	Aquatic Chronic 3, H412
Vertofix	CAS-No.: 32388-55-9 EC-No.: 251-020-3 REACH-no: 01-2119969651-28	0.1 – 0.2	Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

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Geranyl propionate	CAS-No.: 105-90-8 EC-No.: 203-344-1	0.1 – 0.2	Aquatic Chronic 2, H411 Skin Sens. 1B, H317 Skin Irrit. 2, H315
Geranyl isobutyrate	CAS-No.: 2345-26-8 EC-No.: 219-062-7	0.1 – 0.2	Aquatic Chronic 1, H410 (M=1) Aquatic Acute 1, H400 (M=1)
OCIMUM BASILICUM FLOWER/LEAF/STEM EXTRACT	CAS-No.: 84775-71-3 EC-No.: 283-900-8	0.1 – 0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Black pepper oil	CAS-No.: 8006-82-4 EC-No.: 616-894-6	0.1 – 0.2	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 Asp. Tox. 1, H304 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317
Vetiver oil	CAS-No.: 8016-96-4 EC-No.: 616-993-4 REACH-no: 01-2120119716-55	0.1 – 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Alcohol C-10 substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, CH)	CAS-No.: 112-30-1 EC-No.: 203-956-9	0 – 0.0001	Aquatic Chronic 3, H412

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice/attention. Show this safety data sheet or product label to medical personnel.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If symptoms occur or persist, get medical advice/attention.

First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. 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: Rinse mouth. Do not induce vomiting. Call a poison centre or doctor if you feel unwell.

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

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

Symptoms may include redness, itching, rash, dryness or irritation.

Symptoms/effects after eye contact: Causes serious eye irritation. Symptoms may include redness, pain, tearing and blurred vision.

Symptoms/effects after ingestion: May cause gastrointestinal discomfort, nausea or irritation.

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

Treat symptomatically. In case of persistent eye irritation, skin irritation, rash or allergic reaction, seek medical advice

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Sand, Water spray, Dry powder, Foam, Carbon dioxide.

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Unsuitable extinguishing media : Do not use a heavy water stream.

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : 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

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

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

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

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

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. No open flames. No smoking. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a tightly closed container in a cool, dry and well-ventilated place. Keep away from heat, hot surfaces and direct sunlight.

Incompatible materials: Store away from incompatible materials. See section 10.

Special rules on packaging: Keep only in the original or suitable container. Do not store in corrodable metal containers.

Joint storage: Store in accordance with applicable national regulations and good storage practice for chemical products. Follow any local requirements for segregation from incompatible substances.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Benzyl acetate (140-11-4)	
Ireland - Occupational Exposure Limits	
OEL TWA	10 ppm
OEL STEL	30 ppm (calculated)

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. Wear protective gloves.

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Conforms to standard.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable, Combustible liquid
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 83 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.002798739 mm Hg (calculated value)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: ≈ 0.93
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

VOC content : 11.1192 % (calculated value)(CARB VOC) (%w/w)

9.2.1. Information with regard to physical hazard classes

Based on the test methods set out in the UN Manual of Tests and Criteria and in Part A of Regulation (EC) No 440/2008, the product is not classified for any physical hazard class

Explosives: not applicable

Flammable gases: not applicable

Aerosols: not applicable

Oxidising gases: not applicable

Gases under pressure: not applicable

Flammable liquids: not applicable

Flammable solids: not applicable

Self-reactive substances and mixtures: not applicable

Pyrophoric liquids: not applicable

Pyrophoric solids: not applicable

Self-heating substances and mixtures: not applicable

Substances and mixtures which, in contact with water, emit flammable gases: not applicable

Oxidising liquids: not applicable

Oxidising solids: not applicable

Organic peroxides: not applicable

Corrosive to metals: not applicable

Desensitised explosives: not applicable

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

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Stable under normal conditions. Combustible liquid. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Linalool (78-70-6)

LD50 oral rat	2790 mg/kg (Source: NLM_CIP)
LD50 oral	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg (Source: ECHA_API)

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)

LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)

Ethyl linalool (10339-55-6)

LD50 oral	5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)

Grapefruit oil (8016-20-4)

LD50 oral rat	> 5 g/kg (Source: ECHA)
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Methyl ionone (mixture of isomers) (1335-46-2)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
LD50 dermal	2900 mg/kg

Dihydromyrcenol (18479-58-8)

LD50 oral rat	3600 mg/kg (Source: NLM_CIP)
LD50 oral	3020 mg/kg
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)

Hydroxy (107-75-5)

LD50 oral rat	> 6400 mg/kg (Source: ECHA)
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)

Helional (1205-17-0)

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LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)
Orange oil (8008-57-9)	
LD50 oral rat	4400 mg/kg (Source: NZ_CCID)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Lime oil distilled (8008-26-2)	
LD50 oral rat	5600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Vertenex (32210-23-4)	
LD50 oral rat	5 g/kg (Source: NLM_CIP)
Vertenex (32210-23-4)	
LD50 oral	3370 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Triplal (Vertocitral) (68039-49-6)	
LD50 oral	2330 mg/kg
Benzyl acetate (140-11-4)	
LD50 oral rat	2490 mg/kg (Source: JAPAN_GHS)
LD50 oral	2490 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: JAPAN_GHS)
Vertofix (32388-55-9)	
LD50 oral	4500 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
Geranyl propionate (105-90-8)	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)
Geranyl isobutyrate (2345-26-8)	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)
OCIMUM BASILICUM FLOWER/LEAF/STEM EXTRACT (84775-71-3)	
LD50 oral	2790 mg/kg
Vetiver oil (8016-96-4)	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)
Alcohol C-10 (112-30-1)	
LD50 oral rat	4720 mg/kg (Source: NZ_CCID)
LD50 dermal rat	> 5000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 71 mg/l (Exposure time: 1 h Source: ECHA_API)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
IARC group	3 - Not classifiable

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Benzyl acetate (140-11-4)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Hydrocarbon	Yes

11.2. Information on other hazards

11.1.1. Endocrine disrupting properties

The mixture does not contain substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

Potential adverse human health effects and symptoms

11.1.2. Other information

The mixture contains fragrance substances which may cause skin and eye irritation and may cause an allergic skin reaction in sensitised individuals. Vapours, mist or spray may cause respiratory tract irritation. Avoid breathing vapours, mist or spray and avoid contact with skin and eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

Linalool (78-70-6)	
LC50 - Fish [1]	27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: ECHA)
EC50 - Crustacea [1]	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
Ethyl linalool (10339-55-6)	
LC50 - Fish [1]	24 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
Methyl ionone (mixture of isomers) (1335-46-2)	
LC50 - Fish [1]	2.3 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)

Vertenex (32210-23-4)	
Safety Data Sheet	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA)
Alcohol C-10 (112-30-1)	
LC50 - Fish [1]	2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [1]	3 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

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Persistence and degradability	Not established.
Linalool (78-70-6)	
Persistence and degradability	Rapidly degradable
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Persistence and degradability	Rapidly degradable
Ethyl linalool (10339-55-6)	
Persistence and degradability	Rapidly degradable

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Tangerine oil (8016-85-1)	
Persistence and degradability	Rapidly degradable
Grapefruit oil (8016-20-4)	
Persistence and degradability	Rapidly degradable
Methyl ionone (mixture of isomers) (1335-46-2)	
Persistence and degradability	Rapidly degradable
Dihydromyrcenol (18479-58-8)	
Persistence and degradability	Rapidly degradable
Hydroxy (107-75-5)	
Persistence and degradability	Rapidly degradable
Helional (1205-17-0)	
Persistence and degradability	Rapidly degradable
Orange oil (8008-57-9)	
Persistence and degradability	Rapidly degradable
Lime oil distilled (8008-26-2)	
Persistence and degradability	Rapidly degradable
Vertenex (32210-23-4)	
Persistence and degradability	Rapidly degradable
Triplal (Vertocitral) (68039-49-6)	
Persistence and degradability	Rapidly degradable
Benzyl acetate (140-11-4)	
Persistence and degradability	Rapidly degradable
Vertofix (32388-55-9)	
Persistence and degradability	Rapidly degradable
Geranyl propionate (105-90-8)	
Persistence and degradability	Rapidly degradable
Geranyl isobutyrate (2345-26-8)	
Persistence and degradability	Rapidly degradable
OCIMUM BASILICUM FLOWER/LEAF/STEM EXTRACT (84775-71-3)	
Persistence and degradability	Rapidly degradable
Black pepper oil (8006-82-4)	
Persistence and degradability	Rapidly degradable
Vetiver oil (8016-96-4)	
Persistence and degradability	Rapidly degradable
Alcohol C-10 (112-30-1)	
Persistence and degradability	Rapidly degradable

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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.9 (at 20 °C (at pH 7)
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)
Ethyl linalool (10339-55-6)	
Partition coefficient n-octanol/water (Log Pow)	3.3 (at 20 °C)
Methyl ionone (mixture of isomers) (1335-46-2)	
Partition coefficient n-octanol/water (Log Pow)	>4.5 - <5 - at 23 °C (at pH 6.2)
Dihydromyrcenol (18479-58-8)	
Partition coefficient n-octanol/water (Log Pow)	3.25 (at 40 °C (at pH 7)
Hydroxy (107-75-5)	
Partition coefficient n-octanol/water (Log Pow)	1.68 (at 25 °C)
Helional (1205-17-0)	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)
Orange oil (8008-57-9)	
Partition coefficient n-octanol/water (Log Pow)	$\geq 2.78 - \leq 4.88$
Vertenex (32210-23-4)	
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)
Triplal (Vertocitral) (68039-49-6)	
Partition coefficient n-octanol/water (Log Pow)	2.6
Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)
Vertofix (32388-55-9)	
BCF - Fish [1]	(3920 dimensionless (organ w.w.)
Partition coefficient n-octanol/water (Log Pow)	5.6 – 5.9
OCIMUM BASILICUM FLOWER/LEAF/STEM EXTRACT (84775-71-3)	
Partition coefficient n-octanol/water (Log Pow)	5.6 (at 25 °C)
Vetiver oil (8016-96-4)	
Partition coefficient n-octanol/water (Log Pow)	$\geq 3.35 - \leq 6.32$
Alcohol C-10 (112-30-1)	
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 25 °C (at pH 6)

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

The mixture does not contain substances meeting the PBT or vPvB criteria in accordance with Annex XIII of Regulation (EC) No. 1907/2006 at a concentration equal to or greater than 0.1%.

12.6. Endocrine disrupting properties

The mixture does not contain substances identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation (EC) No. 1907/2006, Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

12.7. Other adverse effects

The mixture contains fragrance substances hazardous to the aquatic environment. Harmful to aquatic life with long lasting effects. Avoid release to the environment. No other adverse effects are known based on available information.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations.
Ecological waste information	: Avoid release to the environment.
HP Code	: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

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Rail transport

Not applicable

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	d-Limonene ; Tangerine oil ; Grapefruit oil ; Orange oil ; Black pepper oil ; Lime oil distilled	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)	LIME BASIL MANDARIN #EU42128F ; Ethyl linalool ; d-Limonene ; Tangerine oil ; Linalool ; Hydroxy ; Helional ; Methyl ionone (mixture of isomers) ; Dihydromyrcenol ; Grapefruit oil ; Orange oil ; Geranyl propionate ; Vertenex ; Vertofix ; Black pepper oil ; Lime oil distilled ; Vetiver oil ; Triplal (Vertocitral) ; OCIMUM BASILICUM FLOWER/LEAF/STEM EXTRACT	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)	LIME BASIL MANDARIN #EU42128F ; d-Limonene ; Tangerine oil ; Helional ; Methyl ionone (mixture of isomers) ; Grapefruit oil ; Orange oil ; Geranyl propionate ; Benzyl acetate ; Geranyl isobutyrate ; Vertofix ; Black pepper oil ; Lime oil distilled ; Vetiver oil ; Triplal (Vertocitral) ; OCIMUM BASILICUM FLOWER/LEAF/STEM EXTRACT ; Alcohol C-10	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.	d-Limonene ; Tangerine oil ; Grapefruit oil ; Orange oil ; Black pepper oil ; Lime oil distilled	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.

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REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 11.1192 % (calculated value)(CARB VOC) (%w/w)

Explosives Precursors Regulation (EU 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 (EC 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)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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Full text of H- and EUH-statements:	
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.
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
IATA	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
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

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vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

The classification complies with : ATP 12

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.