

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 5/20/2014 Revision date: 8/24/2021 Supersedes version of: 6/12/2020 Version: 1.5

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

#### **1.1. Product identifier**

Product form	: Substance
Substance name	: ORGANIC GREEN MANDARIN OIL
EC-No.	: 284-521-0
CAS-No.	: 84929-38-4
Product code	: BMANHE01
Synonyms	: No CAS USA : 8008-31-9
Product group	: Organic essential oil
Other means of identification	: Citrus reticulata Blanco

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

### 1.2.1. Relevant identified uses

Main use category	: Industrial use
Industrial/Professional use spec	: Industrial
	For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

EXAFLOR
5 rue des Pyrénées
P.O. Box CP 30561
94653 Rungis Cedex - France
T +33 (0)1 41 73 23 10
exaflor@orange.fr - www.exaflor.co

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA (FRANCE)		+33 1 45 42 59 59	

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410
Full text of H-statements: see section 16	

#### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

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#### 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 GHS08 GHS09 Signal word (CLP) : Danger Hazard statements (CLP) : 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. H361 - Suspected of damaging fertility or the unborn child. H410 - Very toxic to aquatic life with long lasting effects. Precautionary statements (CLP) : P201 - Obtain special instructions before use. P210 - Keep away from heat, sparks, hot surfaces. No smoking. P261 - Avoid breathing fume, gas, dust, vapours. P264 - Wash hands thoroughly after handling. P280 - Wear protective clothing, protective gloves, eye protection. P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do NOT induce vomiting. P308+P313 - IF exposed or concerned: Get medical advice/attention. 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.

2.3. Other hazards

No additional information available

# SECTION 3: Composition/information on ingredients

### 3.1. Substances

DIL

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
D-LIMONENE	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7	65 – 75	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GAMMA-TERPINENE	CAS-No.: 99-85-4 EC-No.: 202-794-6	15 – 22	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304
ALPHA-PINENES	CAS-No.: 80-56-8 EC-No.: 201-291-9	1 – 3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MYRCENE	CAS-No.: 123-35-3 EC-No.: 204-622-5	1.4 – 2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BETA-PINENES	CAS-No.: 127-91-3 EC-No.: 204-872-5	0-2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
P-CYMENE	CAS-No.: 99-87-6 EC-No.: 202-796-7	0 – 1	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 2, H411
METHYL-N-METHYLANTHRANILATE	CAS-No.: 85-91-6 EC-No.: 201-642-6	0.4 – 0.7	Not classified
LINALOOL	CAS-No.: 78-70-6 EC-No.: 201-134-4	0-0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
CITRAL	CAS-No.: 5392-40-5 EC-No.: 226-394-6	0-0.2	Skin Irrit. 2, H315 Skin Sens. 1, H317

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get immediate medical advice/attention, Immediately call a POISON CENTER/doctor. Get medical advice/attention. Specific treatment (see Read label before use. on this label). If skin irritation or rash occurs: Immediately call a POISON CENTER/doctor, Get immediate medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after ingestion	<ul> <li>May cause an allergic skin reaction.</li> <li>Causes skin irritation. Irritation. May cause an allergic skin reaction.</li> <li>May be fatal if swallowed and enters airways. Risk of lung oedema.</li> </ul>
4.3. Indication of any immediate medical	l attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Foam. Dry powder. Carbon dioxide. Water spray. Sand.</li><li>Do not use a heavy water stream.</li></ul>

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5.2. Special hazards arising from the subs	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>Flammable liquid and vapour.</li> <li>May form flammable/explosive vapour-air mixture.</li> <li>Toxic fumes may be released.</li> </ul>
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 mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	<ul> <li>Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.</li> </ul>
6.1.2. 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	

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

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up	<ul> <li>Collect spillage.</li> <li>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. Notify authorities if product enters sewers or public waters.</li> </ul>	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	<ul> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>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. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing smokes, vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes.</li> </ul>

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Hygiene measures	Wash hands thoroughly after handling. 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 an	ny incompatibilities
Technical measures	<ul> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment.</li> </ul>
Storage conditions	Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight. Heat sources.
Maximum storage period	: 12 months Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material.
Storage temperature	: 10 (5 − 25) °C
7.3 Specific and use(s)	

No additional information available

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### 8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

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#### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

Environmental exposure controls:

## Avoid release to the environment.

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	: light green. dark green.
	Light blue fluorescence.
Appearance	: Liquid mobile. Clear.
Odour	characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 175 °C
Flammability	: Flammable liquid and vapour.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 48 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water. Soluble in. alcohol.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 2 mm Hg at 25 °C
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 0.847 – 0.855
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

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SECTION 10: Stability and reactivity

10.3. Possibility of hazardous reactions

**10.6. Hazardous decomposition products** 

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Not established. Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

Refractive index

10.1. Reactivity

Not established.

Flammable liquid and vapour. **10.2. Chemical stability** 

10.4. Conditions to avoid

Eliminate all sources of ignition.

Strong acids. Strong bases.

**10.5. Incompatible materials** 

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: 1.472 – 1.478
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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 (dermal) :	Not classified Not classified Not classified		
ORGANIC GREEN MANDARIN OIL (84929-38-4	4)		
LD50 oral rat	5000 mg/kg		
LD50 dermal rabbit	5000 mg/kg		
D-LIMONENE (5989-27-5)			
LD50 oral rat	4400 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		
GAMMA-TERPINENE (99-85-4)	GAMMA-TERPINENE (99-85-4)		
LD50 oral rat	3850		
ALPHA-PINENES (80-56-8)			
LD50 oral rat	3700 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		
MYRCENE (123-35-3)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		
P-CYMENE (99-87-6)			
LD50 oral rat	4750 mg/kg		
LD50 dermal rabbit	5000		

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks.

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LINALOOL (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 oral	3120 mg/kg LD50 oral mouse
LD50 dermal rabbit	5610 mg/kg
CITRAL (5392-40-5)	
LD50 oral rat	4960 mg/kg
LD50 oral	6000 mg/kg LD50 oral mouse
LD50 dermal rabbit	2550 mg/kg
Skin corrosion/irritation Serious eye damage/irritation Additional information Respiratory or skin sensitisation Germ cell mutagenicity Additional information Carcinogenicity Additional information D-LIMONENE (5989-27-5)	<ul> <li>Causes skin irritation.</li> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> <li>May cause an allergic skin reaction.</li> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> <li>Based on available data, the classification criteria are not met</li> </ul>
IARC group	3 - Not classifiable
Reproductive toxicity Additional information STOT-single exposure Additional information STOT-repeated exposure Additional information Aspiration hazard	<ul> <li>Suspected of damaging fertility or the unborn child.</li> <li>Based on available data, the classification criteria are not met</li> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> <li>Mot classified</li> <li>Based on available data, the classification criteria are not met</li> <li>Mot classified</li> <li>Based on available data, the classification criteria are not met</li> </ul>

### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

#### 11.2.2. Other information

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

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water : Hazardous to the aquatic environment, short-term : (acute)	Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	
D-LIMONENE (5989-27-5)		
LC50 - Fish [1]	0.702 mg/l Pimephales promela (fathead minnow) -96h	
EC50 - Crustacea [1]	69.6 daphnia - 48h	
ALPHA-PINENES (80-56-8)		
LC50 - Fish [1]	0.28 mg/l Pimephales promela (fathead minnow) - 96h	
LC50 - Other aquatic organisms [1]	41 mg/l EC50 48h - Daphnia magna [mg/l]	

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LG50 - Fish [1]     48 mg1 98H - Cyprinodon variegatus (Sheep sheat minnow)       EC50 - Crustances [1]     6.5 mg1 EC50 48h - Dephnia magna [mg1]       ErC50 algae     4.03 mg1 22h - Scenedsemus capricornutum (Fresh water algae)       LINALODL (78-70-8)     LC50 - Fish [1]       LC50 - Fish [1]     27.8 mg1 EC 50 (fish : rainbow trout) :- 96h       LC50 - Constances [1]     S8 mg1 EC50 48h - Daphnia magna [mg1]       NOEC chronic fish     3.5 mg1 Oexondesmus subspicatus (green algae) - 96h       EC50 - Crustances [1]     S9 mg1 EC50 48h - Daphnia magna [mg1]       NOEC chronic crustance     25 mg1 dophnia - 48h       12.2. Persistence and degradability     May cause long-term adverse effects in the environment.       D+LMONENE (5989-27-5)     Persistence and degradability       Persistence and degradability     May cause long-term adverse effects in the environment.       GAMMA-TERPINENE (99-85-4)     Persistence and degradability       Persistence and degradability     Not established.       ALPHA-PINENES (80-56-8)     Persistence and degradability       Persistence and degradability     Not established.       MYRCENE (123-30)     Persistence and degradability       Persistence and degradability     Not established.       NYRCENE (123-53)     Persistence and degradability       Persistence and degradability     Readity biodegradable.       Persistence and degradability     Re	P-CYMENE (99-87-6)			
ErCS0 algae     4.03 mg1 72h - Scenedesmus caproconutum (Fresh water algae)       LINALOOL (78-70-6)     Image: Comparison (1)       LCS0 - Fish (1)     27.8 mg1 EC 50 (fish : rankow trout) :- 96h       LCS0 - Other aquatic organisms (1)     88.3 mg1 Desmodesmus subspicatus (green algae) - 96h       DCC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       NOEC chronic fish     3.5 mg1 Oncohnynchus mykis (Rainbow trout) - 96h       Persistence and degradability     May cause long-term adverse effects in the environment.       BETA-PINENES (20-56-8)     Persistence and degradability     Not established.       NYRCENE (123-35-3)     Persistence and degradabil	LC50 - Fish [1]	48 mg/l 96H -Cyprinodon variegatus (Sheep shead minnow)		
LINALOOL (78-70-6)         LCS0 - Fish [1]       27.8 mgH EC 50 (fish : rainbow trout) : - 96h         LCS0 - Other aquatic organisms [1]       88.3 mgH Desmodesmus subspicatus (green algae) - 96h         EC50 - Crusteacea [1]       59 mgH EC50 48h - Daphnia magna [mgH]         NOEC chronic fish       3.5 mgH Oncorhynchus mykiss (Rainbow trout) = 96h         NOEC chronic crustacea       25 mgH Coohynchus mykiss (Rainbow trout) = 96h         NOEC chronic fish       3.5 mgH Oncorhynchus mykiss (Rainbow trout) = 96h         NOEC chronic fish       3.5 mgH Coohynchus mykiss (Rainbow trout) = 96h         NOEC chronic fish       3.5 mgH Coohynchus mykiss (Rainbow trout) = 96h         NOEC chronic fish       3.5 mgH Coohynchus mykiss (Rainbow trout) = 96h         NOEC chronic crustacea       25 mgH daphnia - 48h         12.2. Persistence and degradability       May cause long-term adverse effects in the environment.         D-LIMONENE (5989-27-5)       Persistence and degradability         Not established.       ALPHA-PINENES (90-56-8)         Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         PCYMENE (99-87-6)       Persistence and degradability         Persistence and degradability       Readily biodegradabie.	EC50 - Crustacea [1]	6.5 mg/l EC50 48h - Daphnia magna [mg/l]		
LC50 - Fah [1]       27.8 mg/l EC 50 (fsh : ranbow trout) :- 96h         LC50 - Other aquatic organisms [1]       86.3 mg/l Desmodesmus subspicatus (green algae) - 96h         EC50 - Crustacea (1)       59 mg/l EC50 48h - Daphnia magna [mg/l]         NOEC chronic fish       3.5 mg/l Oncorhynchus mykiss (Rainbow trout): 96h         NOEC chronic fish       3.5 mg/l Oncorhynchus mykiss (Rainbow trout): 96h         NOEC chronic fish       3.5 mg/l daphnia - 48h         12.2 Persistence and degradability       May cause long-term adverse effects in the environment.         D-LIMONEKE (5989-27-5)       Persistence and degradability         Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)       Persistence and degradability         Persistence and degradability       Not established.         ALPHA-PINENES (90-56-8)       Persistence and degradability         Persistence and degradability       Not established.         MYRCEKE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         MYRCEKE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         Persistence and degradability       Readily biodegradable.         Biodegradation       10 % <td< td=""><td>ErC50 algae</td><td>4.03 mg/l 72h - Scenedesmus capricornutum (Fresh water algae)</td></td<>	ErC50 algae	4.03 mg/l 72h - Scenedesmus capricornutum (Fresh water algae)		
LCS0 - Other aquatic organisms [1]       88.3 mg/l Desmodesmus subspicatus (green algae) - 96h         ECS0 - Crustacea [1]       59 mg/l ECS0 48h - Daphnia magna [mg/l]         NOEC chronic fish       3.5 mg/l Oncorhynchus mykiss (Rainbow trout) - 96h         NOEC chronic rustacea       25 mg/l daphnia - 48h         12.2. Persistence and degradability       May cause long-term adverse effects in the environment.         D-LIMONENE (5989-27-5)       Persistence and degradability         Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)       Persistence and degradability         Persistence and degradability       Not established.         ALPHA-PINENES (80-56-8)       Persistence and degradability         Persistence and degradability       Not established.         MYRCENE (123-35.3)       Persistence and degradability         Persistence and degradability       Not established.         MYRCENE (123-35.3)       Persistence and degradability         Persistence and degradability       Not established.         P-CYMENE (99-87-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable.         Biodegradability       Readily biodegradable.         Biodegradability       Readily biodegradable.         Biodegradabi	LINALOOL (78-70-6)			
ECc0 - Crustacea [1]       59 mg/l ECS0 48h - Daphnia magna [mg/l]         NOEC chronic fish       3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h         NOEC chronic crustacea       25 mg/l daphnia - 48h         12.2. Persistence and degradability       May cause long-term adverse effects in the environment.         D-LIMONENE (5989-27-5)       Persistence and degradability         Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)       Persistence and degradability         Persistence and degradability       Not established.         ALPHA-PINENES (62-56-6)       Persistence and degradability         Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability<	LC50 - Fish [1]	27.8 mg/l EC 50 (fish : rainbow trout) : - 96h		
NOEC chronic fish       3.5 mg/l Oncertynchus mykiss (Rainbow troul)- 96h         NOEC chronic crustacea       25 mg/l daphnia - 48h         12.2. Persistence and degradability       May cause long-term adverse effects in the environment.         D-LIMONENE (5989-27-5)       Persistence and degradability         May cause long-term adverse effects in the environment.       GAMMA-TERPINENE (99-85-4)         Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)       Persistence and degradability         Persistence and degradability       Not established.         ALPHA-PINENES (80-56-8)       Persistence and degradability         Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         P-CYMENE (99-87-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable.         Biodegradability       Readily biodegradable.         Biodegradabin       100 % 13 DAYS- ZAHN-WELLENS	LC50 - Other aquatic organisms [1]	88.3 mg/l Desmodesmus subspicatus (green algae) - 96h		
NOEC chronic crustacea         25 mg/l daphnia - 48h           12.2. Persistence and degradability         ORGANIC GREEN MANDARIN OIL (84929-38-4)           Persistence and degradability         May cause long-term adverse effects in the environment.           D-LIMONENE (5989-27-5)         Persistence and degradability           Persistence and degradability         May cause long-term adverse effects in the environment.           GAMMA-TERPINENE (99-85-4)         Persistence and degradability           Persistence and degradability         Not estabilished.           ALPHA-PINENES (80-56-8)         Persistence and degradability           Persistence and degradability         Not estabilished.           BETA-PINENES (127-91-3)         Persistence and degradability           Persistence and degradability         Not estabilished.           MYRCENE (123-35-3)         Persistence and degradability           Persistence and degradability         Not estabilished.           P-CYMENE (99-87-6)         Persistence and degradability           Persistence and degradability         Readily biodegradable. Not estabilished.           Biodegradation         100 %           LINALOOL (78-70-6)         Persistence and degradability           Persistence and degradability         Readily biodegradable. Not estabilished.           Biodegradation         100 % 13 DAYS- ZAHN-WELLE	EC50 - Crustacea [1]	59 mg/l EC50 48h - Daphnia magna [mg/l]		
12.2. Persistence and degradability         ORGANIC GREEN MANDARIN OIL (84929-38-4)         Persistence and degradability       May cause long-term adverse effects in the environment.         D-LIMONENE (5989-27-5)         Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)         Persistence and degradability       Not established.         ALPHA-PINENES (80-56-8)         Persistence and degradability       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.	NOEC chronic fish	3.5 mg/I Oncorhynchus mykiss (Rainbow trout)- 96h		
ORGANIC GREEN MANDARIN OIL (84929-38-4)         Persistence and degradability       May cause long-term adverse effects in the environment.         D-LIMONENE (5989-27-5)         Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)         Persistence and degradability       Not established.         ALPHA-PINENES (05-6-8)         Persistence and degradability       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradability       Readily biodegradable.         Biodegradability       Readily biodegradable.         Biodegradability       Readily biodegradable.         Persistence and degradability       Readily biodegradable.         Biodegradability       Readily biodegradable.         Biodegradability       Readily biodegradable.         Persistence and degradability       Not established.	NOEC chronic crustacea	25 mg/l daphnia - 48h		
Persistence and degradability       May cause long-term adverse effects in the environment.         D-LIMONENE (5989-27-5)       Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)       Persistence and degradability       Not established.         ALPHA-PINENES (80-56-8)       Persistence and degradability       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)       Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability       Not established.         Persistence and degradability       Not established.       Not established.         P-CYMENE (99-87-6)       Persistence and degradability       Not established.         P-CYMENE (99-87-6)       Persistence and degradability       Readily biodegradable.       Sindegradable.         Biodegradability       Readily biodegradable. Not established.       Sindegradability       Sindegradable.         Biodegradabi	12.2. Persistence and degradability			
D-LIMONENE (5989-27-5)         Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)         Persistence and degradability       Not established.         ALPHA-PINENES (80-56-8)         Persistence and degradability       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS-ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         Bioaccumulative potential <td< td=""><td>ORGANIC GREEN MANDARIN OIL (84929-38-4</td><td>4)</td></td<>	ORGANIC GREEN MANDARIN OIL (84929-38-4	4)		
Persistence and degradability       May cause long-term adverse effects in the environment.         GAMMA-TERPINENE (99-85-4)       Persistence and degradability         Not established.       ALPHA-PINENES (80-56-8)         Persistence and degradability       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)       Persistence and degradability         Not established.       MYRCENE (123-35-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         P-CYMENE (99-87-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS-ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         Bioaccumulative potential       Not	Persistence and degradability	May cause long-term adverse effects in the environment.		
GAMMA-TERPINENE (99-85-4)         Persistence and degradability       Not established.         ALPHA-PINENES (80-56-8)         Persistence and degradability       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       ORGANIC GREEN MANDARIN OIL (84929-38-4)         Bioaccumulative potential	D-LIMONENE (5989-27-5)			
Persistence and degradability       Not established.         ALPHA-PINENES (80-56-8)       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)       Persistence and degradability         Not established.       MYRCENE (123-35-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)       Persistence and degradability         Persistence and degradability       Not established.         P-CYMENE (99-87-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         Bioaccumulative potential       Not established.	Persistence and degradability	May cause long-term adverse effects in the environment.		
ALPHA-PINENES (80-56-8)         Persistence and degradability       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         Bioaccumulative potential       Not established.         D-LIMONENE (5989-27-5)       Intersite testablished.	GAMMA-TERPINENE (99-85-4)			
Persistence and degradability       Readily biodegradable. May cause long-term adverse effects in the environment.         BETA-PINENES (127-91-3)       Persistence and degradability         Not established.       MYRCENE (123-35-3)         Persistence and degradability       Not established.         P-CYMENE (99-87-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioacumulative potential         Bioacumulative potential       Not established.         D-LIMONENE (5989-27-5)       Image: Stablished.	Persistence and degradability	Not established.		
BETA-PINENES (127-91-3)         Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         Bioaccumulative potential       Not established.	ALPHA-PINENES (80-56-8)			
Persistence and degradability       Not established.         MYRCENE (123-35-3)         Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         Bioaccumulative potential       Not established.	Persistence and degradability	Readily biodegradable. May cause long-term adverse effects in the environment.		
MYRCENE (123-35-3)         Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         D-LIMONENE (5989-27-5)       Not established.	BETA-PINENES (127-91-3)			
Persistence and degradability       Not established.         P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         D-LIMONENE (5989-27-5)       Not established.	Persistence and degradability	Not established.		
P-CYMENE (99-87-6)         Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         D-LIMONENE (5989-27-5)       Not established.	MYRCENE (123-35-3)			
Persistence and degradability       Readily biodegradable.         Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         D-LIMONENE (5989-27-5)       Not established.	Persistence and degradability	Not established.		
Biodegradation       100 %         LINALOOL (78-70-6)       Persistence and degradability         Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)         Persistence and degradability       Not established.         IIII Comparison       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Not established.       12.3. Bioaccumulative potential         ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential         D-LIMONENE (5989-27-5)       Not established.	P-CYMENE (99-87-6)			
LINALOOL (78-70-6)         Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       Persistence and degradability         Not established.       Not established.         12.3. Bioaccumulative potential       ORGANIC GREEN MANDARIN OIL (84929-38-4)         Bioaccumulative potential       Not established.         D-LIMONENE (5989-27-5)       Image: Comparison of the stablished.	Persistence and degradability	Readily biodegradable.		
Persistence and degradability       Readily biodegradable. Not established.         Biodegradation       100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B         CITRAL (5392-40-5)       CITRAL (5392-40-5)         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       ORGANIC GREEN MANDARIN OIL (84929-38-4)         Bioaccumulative potential       Not established.         D-LIMONENE (5989-27-5)       Image: Comparison of the stablished.	Biodegradation	100 %		
Biodegradation     100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B       CITRAL (5392-40-5)     Persistence and degradability       Not established.     Not established.       12.3. Bioaccumulative potential     ORGANIC GREEN MANDARIN OIL (84929-38-4)       Bioaccumulative potential     Not established.       D-LIMONENE (5989-27-5)     Image: Comparison of the stablished of the stablished.	LINALOOL (78-70-6)			
CITRAL (5392-40-5)         Persistence and degradability       Not established.         12.3. Bioaccumulative potential         ORGANIC GREEN MANDARIN OIL (84929-38-4)         Bioaccumulative potential         Not established.         D-LIMONENE (5989-27-5)	Persistence and degradability	Readily biodegradable. Not established.		
Persistence and degradability       Not established.         12.3. Bioaccumulative potential       ORGANIC GREEN MANDARIN OIL (84929-38-4)         Bioaccumulative potential       Not established.         D-LIMONENE (5989-27-5)       Image: Comparison of the stablished.	Biodegradation	100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B		
12.3. Bioaccumulative potential         ORGANIC GREEN MANDARIN OIL (84929-38-4)         Bioaccumulative potential         Not established.         D-LIMONENE (5989-27-5)	CITRAL (5392-40-5)			
ORGANIC GREEN MANDARIN OIL (84929-38-4)         Bioaccumulative potential       Not established.         D-LIMONENE (5989-27-5)	Persistence and degradability	Not established.		
Bioaccumulative potential     Not established.       D-LIMONENE (5989-27-5)	12.3. Bioaccumulative potential			
D-LIMONENE (5989-27-5)	ORGANIC GREEN MANDARIN OIL (84929-38-4)			
	Bioaccumulative potential	Not established.		
Bioaccumulative potential Not established.	D-LIMONENE (5989-27-5)			
	Bioaccumulative potential	Not established.		

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

GAMMA-TERPINENE (99-85-4)		
Bioaccumulative potential	Not established.	
ALPHA-PINENES (80-56-8)		
Partition coefficient n-octanol/water (Log Pow)	4.834	
Bioaccumulative potential	Not established.	
BETA-PINENES (127-91-3)		
Bioaccumulative potential	Not established.	
MYRCENE (123-35-3)		
Partition coefficient n-octanol/water (Log Kow)	4.17	
Bioaccumulative potential	Not established.	
P-CYMENE (99-87-6)		
Partition coefficient n-octanol/water (Log Kow)	4.1	
LINALOOL (78-70-6)		
Partition coefficient n-octanol/water (Log Pow)	2.97	
Bioaccumulative potential	Not established.	
CITRAL (5392-40-5)		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
Additional information :	Avoid release to the environment.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods : Product/Packaging disposal recommendations :	Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to contents/container to agreemented companies according to national	

13.1. Waste treatment methods	
Waste treatment methods Product/Packaging disposal recommendations	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to contents/container to agreemented companies according to national regulations.</li> </ul>
Additional information	: Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

# **SECTION 14: Transport information**

In accordance with ADR

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

14.1. UN number or ID number	
UN-No. (ADR)	: UN 1169
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Transport document description (ADR)	<ul> <li>EXTRACTS, AROMATIC, LIQUID</li> <li>UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS</li> </ul>
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	
14.4. Packing group	
Packing group (ADR)	: 111
14.5. Environmental hazards	
Dangerous for the environment Other information	: Yes : No supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Vehicle for tank carriage Transport category (ADR) Hazard identification number (Kemler No.) Orange plates	: F1 : $601, 640E$ : $5I$ : $E1$ : $FL$ : $3$ : $30$ : $30$ : $30$ : $1169$
Tunnel restriction code (ADR)	: D/E
14.7. Maritime transport in bulk according	g to IMO instruments

#### Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions ORGANIC GREEN MANDARIN OIL is not on the REACH Candidate List ORGANIC GREEN MANDARIN OIL is not on the REACH Annex XIV List ORGANIC GREEN MANDARIN OIL is not 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. ORGANIC GREEN MANDARIN OIL is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants VOC content : ~75 %

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

#### 15.1.2. National regulations

#### Germany

Connany	
Water hazard class (WGK)	: WGK 2, Significantly hazardous to water
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Data sources

Other information

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

: None.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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
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
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.
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.

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.