acc. to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of petitgrain South American

article number: **6614** Version: **2.0 en** Replaces version of: 2021-08-09 Version: (1)

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

#### 1.1 Product identifier

Identification of the substance	Oil of petitgrain South American
Article number	6614
EC number	277-143-2
CAS number	8014-17-3

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

#### e-mail (competent person):

#### sicherheit@carlroth.de

#### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

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

#### 2.1 Classification of the substance or mixture

**Classification acc. to GHS** 



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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	Skin sensitisation	1	Skin Sens. 1	H317
3.10	Aspiration hazard	1	Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

## The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

Danger

#### 2.2 Label elements

Labelling

Signal word

#### Pictograms



GHS08, GHS09

GHS05, GHS07,

#### Hazard statements

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P273 Avoid release to the environment

#### **Precautionary statements - response**

P302+P352	IF ON SKIN: Wash with plenty of water
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER/doctor
P331	Do NOT induce vomiting

#### 2.3 Other hazards

This material is combustible, but will not ignite readily.

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

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### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

"UVCB substance" (substance of unknown or variable composition).

Name of substance	Oil of petitgrain
CAS No	8014-17-3
EC No	277-143-2

#### Impurities/additives/constituents:

Name of substance	Identifier	Wt%
Acetic acid linalyl ester	CAS No 115-95-7	50 - < 75
	EC No 204-116-4	
Linalool	CAS No 78-70-6	10-<25
	EC No 201-134-4	
	Index No 603-235-00-2	
Geranyl acetate	CAS No 105-87-3	5 - < 10
	EC No 203-341-5	
α-Terpineol	CAS No 98-55-5	5 - < 10
	EC No 202-680-6	
Neryl Acetate	CAS No 141-12-8	1-<5
	EC No 205-459-2	
Geraniol	CAS No 106-24-1	1-<5
	EC No 203-377-1	
	Index No 603-241-00-5	
Nerol	CAS No 106-25-2	1-<5
	EC No 203-378-7	
Myrcene	CAS No 123-35-3	1-<5
	EC No 204-622-5	

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Name of substance	Identifier	Wt%
ß-Pinene	CAS No 127-91-3	1-<5
	EC No 204-872-5	
DL-Limonene	CAS No 138-86-3	1-<5
	EC No 205-341-0	
	Index No 601-029-00-7	

#### Remarks

For full text of abbreviations: see SECTION 16

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

#### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### **Following ingestion**

Call a physician immediately. Observe aspiration hazard if vomiting occurs.

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

Aspiration hazard, Risk of blindness, Risk of serious damage to eyes, Irritation, Allergic reactions

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

none

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Combustible.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Do not breathe vapour/spray. Avoid contact with skin and eyes.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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### **SECTION 7: Handling and storage**

#### **Precautions for safe handling** 7.1

Provision of sufficient ventilation. When not in use, keep containers tightly closed.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including any incompatibilities 7.2

Keep container tightly closed.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### **Consideration of other advice:**

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

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

#### 8.1 **Control parameters**

#### National limit values

#### **Occupational exposure limit values (Workplace Exposure Limits)**

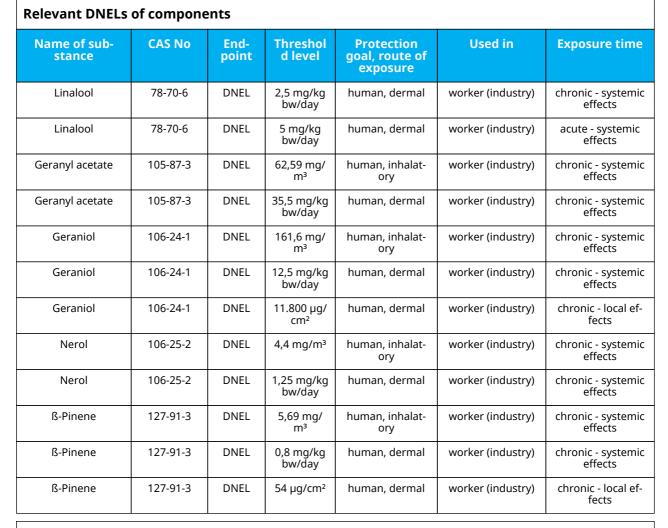
This information is not available.

Relevant DNELs of components						
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Acetic acid linalyl ester	115-95-7	DNEL	2,75 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Acetic acid linalyl ester	115-95-7	DNEL	2,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Acetic acid linalyl ester	115-95-7	DNEL	236,2 μg/ cm²	human, dermal	worker (industry)	chronic - local ef- fects
Acetic acid linalyl ester	115-95-7	DNEL	236,2 µg/ cm²	human, dermal	worker (industry)	acute - local ef- fects
Linalool	78-70-6	DNEL	2,8 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16,5 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects

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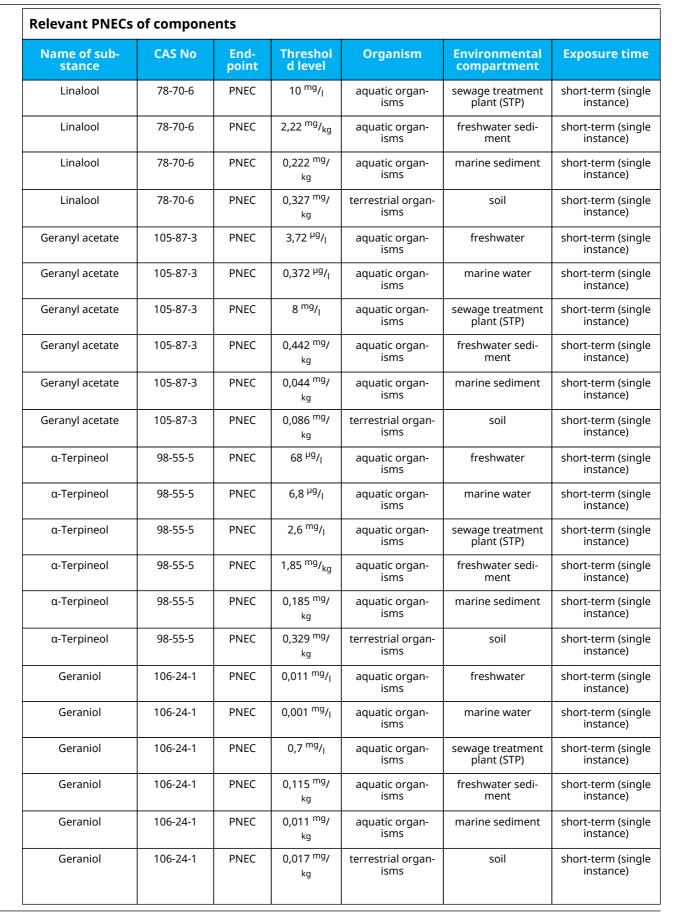
Relevant PNECs	of compone	ents				
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Acetic acid linalyl ester	115-95-7	PNEC	0,011 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,001 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	1 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,609 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,061 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,115 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	0,2 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0,02 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)



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Relevant PNECs of components						
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Nerol	106-25-2	PNEC	7,45 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Nerol	106-25-2	PNEC	0,745 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
Nerol	106-25-2	PNEC	12,9 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Nerol	106-25-2	PNEC	133 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Nerol	106-25-2	PNEC	13,3 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Nerol	106-25-2	PNEC	22,3 <sup>µg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
ß-Pinene	127-91-3	PNEC	1,004 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
ß-Pinene	127-91-3	PNEC	0,1 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
ß-Pinene	127-91-3	PNEC	3,26 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
ß-Pinene	127-91-3	PNEC	0,337 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
ß-Pinene	127-91-3	PNEC	0,034 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
ß-Pinene	127-91-3	PNEC	0,067 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

**Eye/face protection** 



Use safety goggle with side protection.

#### Skin protection





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Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

material thickness

0,4 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65  $^{\circ}$ C, colour code: Brown).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	light yellow
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	66 °C
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined



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	Kinematic viscosity	not determined
	Solubility(ies)	
	Water solubility	practically insoluble
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	this information is not available
	Vapour pressure	not determined
	Density and/or relative density	
	Density	0,87 <sup>g</sup> / <sub>cm³</sub> at 20 °C
	Relative vapour density	Information on this property is not available.
	Particle characteristics	not relevant (liquid)
	Other safety parameters	
	Oxidising properties	none
.2	Other information	
	Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
	Other safety characteristics:	
	Refractive index	1,455 – 1,495

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### If heated

Vapours may form explosive mixtures with air.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### **10.5** Incompatible materials

There is no additional information.

#### **10.6** Hazardous decomposition products

Hazardous combustion products: see section 5.

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### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Classification acc. to GHS**

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Acetic acid linalyl ester	115-95-7	oral	LD50	>9.000 <sup>mg</sup> / <sub>kg</sub>	rat
Acetic acid linalyl ester	115-95-7	dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
Linalool	78-70-6	oral	LD50	2.790 <sup>mg</sup> / <sub>kg</sub>	rat
Linalool	78-70-6	dermal	LD50	5.610 <sup>mg</sup> / <sub>kg</sub>	rabbit
Geranyl acetate	105-87-3	oral	LD50	6.330 <sup>mg</sup> / <sub>kg</sub>	rat
α-Terpineol	98-55-5	oral	LD50	4.300 <sup>mg</sup> / <sub>kg</sub>	rat
α-Terpineol	98-55-5	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat
Geraniol	106-24-1	oral	LD50	3.600 <sup>mg</sup> / <sub>kg</sub>	rat
Geraniol	106-24-1	dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
Myrcene	123-35-3	oral	LD50	>3.380 <sup>mg</sup> / <sub>kg</sub>	mouse
Myrcene	123-35-3	dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
Neryl Acetate	141-12-8	oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat
Nerol	106-25-2	oral	LD50	4.500 <sup>mg</sup> / <sub>kg</sub>	rat
Nerol	106-25-2	dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
ß-Pinene	127-91-3	oral	LD50	4.700 <sup>mg</sup> / <sub>kg</sub>	rat
DL-Limonene	138-86-3	oral	LD50	5.300 <sup>mg</sup> / <sub>kg</sub>	rat

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

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#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

aspiration hazard

#### • If in eyes

Causes serious eye damage, risk of blindness

#### • If inhaled

Data are not available.

#### • If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

#### • Other information

none

#### **11.2** Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### 11.3 Information on other hazards

There is no additional information.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

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Toxic to aquatic life with long lasting effects.

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Acetic acid linalyl ester	115-95-7	ErC50	62 <sup>mg</sup> /l	algae	72 h
Acetic acid linalyl ester	115-95-7	LC50	11 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Acetic acid linalyl ester	115-95-7	EC50	59 <sup>mg</sup> /l	aquatic invertebrates	48 h
Linalool	78-70-6	LC50	27,8 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Linalool	78-70-6	EC50	59 <sup>mg</sup> /l	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156,7 <sup>mg</sup> / <sub>l</sub>	algae	96 h
Geranyl acetate	105-87-3	LC50	68,12 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Geranyl acetate	105-87-3	EC50	14,1 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Geranyl acetate	105-87-3	ErC50	3,72 <sup>mg</sup> / <sub>l</sub>	algae	72 h

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Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
α-Terpineol	98-55-5	LC50	70 <sup>mg</sup> / <sub>l</sub>	fish	96 h
α-Terpineol	98-55-5	EC50	73 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
α-Terpineol	98-55-5	ErC50	68 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Geraniol	106-24-1	LC50	22 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Geraniol	106-24-1	EC50	10,8 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Geraniol	106-24-1	ErC50	13,1 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Myrcene	123-35-3	EC50	1,47 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Myrcene	123-35-3	EC50	0,31 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Myrcene	123-35-3	ErC50	0,342 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Neryl Acetate	141-12-8	LC50	6 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Neryl Acetate	141-12-8	EC50	10,68 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	24 h
Neryl Acetate	141-12-8	ErC50	4,9 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Nerol	106-25-2	LC50	20,3 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Nerol	106-25-2	EC50	32,4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Nerol	106-25-2	ErC50	9,54 <sup>mg</sup> / <sub>l</sub>	algae	72 h
ß-Pinene	127-91-3	LC50	0,68 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h
ß-Pinene	127-91-3	EC50	1,09 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
ß-Pinene	127-91-3	ErC50	0,7 <sup>mg</sup> / <sub>l</sub>	Pseudokirchneriella subcapitata	72 h
DL-Limonene	138-86-3	EC50	17 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
DL-Limonene	138-86-3	LC50	80 <sup>mg</sup> /l	rainbow trout (Onco- rhynchus mykiss)	96 h

#### Aquatic toxicity (chronic) of components Name of sub-Exposure **CAS No** Endpoint Value **Species** stance time Acetic acid linalyl ester 115-95-7 LC50 11,14 <sup>mg</sup>/<sub>l</sub> 20 h fish Linalool 78-70-6 EC50 >100 <sup>mg</sup>/<sub>l</sub> 30 min microorganisms Geraniol 106-24-1 EC50 70 <sup>mg</sup>/<sub>l</sub> 30 min microorganisms ≥1.000 <sup>mg</sup>/<sub>l</sub> Neryl Acetate 141-12-8 EC50 3 h microorganisms Nerol 106-25-2 EC50 241 <sup>mg</sup>/<sub>l</sub> 3 h microorganisms 326 <sup>mg</sup>/<sub>l</sub> ß-Pinene 127-91-3 EC50 microorganisms 3 h

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#### 12.2 Persistence and degradability

#### **Biodegradation**

Not readily biodegradable.

Degradabilit	Degradability of components					
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Acetic acid linalyl ester	115-95-7	oxygen deple- tion	≥0 – ≤10 %	1 d		ECHA
Linalool	78-70-6	oxygen deple- tion	40,9 %	5 d		ECHA
Geranyl acet- ate	105-87-3	oxygen deple- tion	>70 %	28 d		ECHA
α-Terpineol	98-55-5	carbon dioxide generation	80 %	28 d	OECD Guideline 310	
Geraniol	106-24-1	DOC removal	90 – 100 %	3 d		ECHA
Myrcene	123-35-3	oxygen deple- tion	76 %	28 d		ECHA
Neryl Acetate	141-12-8	oxygen deple- tion	90 %	28 d		ECHA
Nerol	106-25-2	oxygen deple- tion	90 %	28 d		ECHA
ß-Pinene	127-91-3	oxygen deple- tion	76 %	28 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Acetic acid linalyl ester	115-95-7	174	3,9 (25 °C)	
Linalool	78-70-6		2,9 (pH value: 7, 20 °C)	
Geranyl acetate	105-87-3		4,04	
α-Terpineol	98-55-5		2,98	
Geraniol	106-24-1		2,6 (25 °C)	
Myrcene	123-35-3		4,82 (pH value: ~6,5, 30 °C)	
Neryl Acetate	141-12-8		3,98 (pH value: 7,2, 37 °C)	
Nerol	106-25-2		2,76 (pH value: ~6,5, 30 °C)	
DL-Limonene	138-86-3		4,57	

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

acc. to Regulation (EC) No. 1907/2006 (REACH)



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#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### Properties of waste which render it hazardous

- HP 4 irritant - skin irritation and eye damage
- HP 5 specific target organ toxicity (STOT)/aspiration toxicity
- HP 13 sensitisir HP 14 ecotoxic sensitising

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

### SECTION 14: Transport information

14.1	UN number or ID number	
	ADRRID	UN 3082
	IMDG-Code	UN 3082
	ICAO-TI	UN 3082
14.2	UN proper shipping name	
	ADRRID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-QUID, N.O.S.
	IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-QUID, N.O.S.
	ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
	Technical name	Oil of petitgrain

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14.3	Transport hazard class(es)	
	ADRRID	9
	IMDG-Code	9
	ICAO-TI	9
14.4	Packing group	
	ADRRID	III
	IMDG-Code	III
	ICAO-TI	III
14.5	Environmental hazards	hazardous to the aquatic environment

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

#### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

#### Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-QUID, N.O.S. Particulars in the transport document UN3082, ENVIRONMENTALLY HAZARDOUS SUB-STANCE, LIQUID, N.O.S., (Oil of petitgrain), 9, III, (-) Classification code M6 Danger label(s) 9, "Fish and tree" Environmental hazards Yes (hazardous to the aquatic environment) Special provisions (SP) 274, 335, 375, 601 Excepted quantities (EQ) E1 Limited quantities (LQ) 5 L Transport category (TC) 3 Tunnel restriction code (TRC) Hazard identification No 90 **Emergency Action Code** 3Z Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information **Classification code** M6 Danger label(s) 9, "Fish and tree"

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Environmental hazards	Yes Hazardous to water
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Hazard identification No	90
International Maritime Dangerous Goods (	Code (IMDG) - Additional information
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI QUID, N.O.S.
Particulars in the shipper's declaration	UN3082, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S., (Oil of petitgrain), 9, III
Marine pollutant	<b>YES</b> (hazardous to the aquatic environment), (Oil of petit- grain)
Danger label(s)	9, "Fish and tree"
Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	Α
International Civil Aviation Organization (I	(CAO-IATA/DGR) - Additional information
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (Oil of petitgrain), 9, III
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)
Danger label(s)	9, "Fish and tree"
Special provisions (SP)	A97, A158, A197, A215
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

acc. to Regulation (EC) No. 1907/2006 (REACH)



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### **SECTION 15: Regulatory information**

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

Relevant provisions of the European Union (EU)

#### **Seveso Directive**

2012/18/EU (Seveso III)					
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes		
E2	environmental hazards (hazardous to the aquatic en- vironment, cat. 2)	200 500	57)		

#### Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

#### **Deco-Paint Directive**

VOC content	100 %
VOC content	870 <sup>g</sup> /l

#### Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	870 <sup>g</sup> / <sub>l</sub>

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

#### Water Framework Directive (WFD)

not listed

#### Regulation on the marketing and use of explosives precursors

not listed

#### **Regulation on drug precursors**

not listed

#### Regulation on substances that deplete the ozone layer (ODS)

not listed

#### Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

#### **Regulation on persistent organic pollutants (POP)**

not listed

#### National regulations(GB)

acc. to Regulation (EC) No. 1907/2006 (REACH)



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# List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

#### **Restrictions according to GB REACH, Annex 17**

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
Oil of petitgrain	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
KR	KECI	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

#### Legend

AIIC	Australian Inventory of Industrial Chemicals	
DSL	Domestic Substances List (DSL)	
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)	
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China	
KECI	Korea Existing Chemicals Inventory	
NCI		
NZIoC	New Zealand Inventory of Chemicals	
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	
TCSI	Taiwan Chemical Substance Inventory	
TSCA	Toxic Substance Control Act	
KECI NCI NZIoC PICCS TCSI	Korea Existing Chemicals Inventory National Chemical Inventory New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) Taiwan Chemical Substance Inventory	

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

acc. to Regulation (EC) No. 1907/2006 (REACH)



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### **SECTION 16: Other information**

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety relev ant
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8		Regulations concerning the International Car- riage of Dangerous Goods by Rail (RID)Addition- al information	yes
14.8		Classification code: M6	yes
14.8		Danger label(s): 9, "Fish and tree"	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Environmental hazards: Yes Hazardous to water	yes
14.8		Special provisions (SP): 274, 335, 375, 601	yes
14.8		Excepted quantities (EQ): E1	yes
14.8		Limited quantities (LQ): 5 L	yes
14.8		Transport category (TC): 3	yes
14.8		Hazard identification No: 90	yes
15.1	Restrictions according to REACH, Annex XVII		yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1	List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list: Not listed.		yes

acc. to Regulation (EC) No. 1907/2006 (REACH)



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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1	VOC content: 100 % 870 <sup>g</sup> / <sub>l</sub>	VOC content: 100 %	yes
15.1		VOC content: 870 <sup>g</sup> / <sub>l</sub>	yes
15.1		National regulations(GB)	yes
15.1		List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list: not listed	yes
15.1		Restrictions according to GB REACH, Annex 17	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1		National inventories: change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

acc. to Regulation (EC) No. 1907/2006 (REACH)



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Abbr.	Descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.