Oil of pepper, natural

article number: 6616 Version: GHS 3.0 en Replaces version of: 2023-02-10 Version: (GHS 2)

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

**Product identifier** 1.1

Identification of the substance

Article number

CAS number

Alternative name(s)

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

Relevant identified uses:

Uses advised against:

Laboratory chemical

**Oil of pepper**, natural

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

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

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

#### **Emergency telephone number** 1.4

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

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

#### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	3	Flam. Liq. 3	H226
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.45	Skin sensitisation	1	Skin Sens. 1	H317

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84929-41-9 **Oleum Piperis** 

Laboratory and analytical use

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Section	ction Hazard class		Hazard class and category	Hazard statement
3.10	Aspiration hazard	1	Asp. Tox. 1	H304

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

Labelling

Signal word Danger

### **Pictograms**

GHS02, GHS07, GHS08



### **Hazard statements**

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

### **Precautionary statements**

### **Precautionary statements - prevention**

P210Keep away from heat/sparks/open flames/hot surfaces. - No smokingP280Wear protective gloves

### **Precautionary statements - response**

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P331	Do NOT induce vomiting
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction

### **Precautionary statements - storage**

P403+P235 Store in a well-ventilated place. Keep cool

### 2.3 Other hazards

### 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 pepper
CAS No	84929-41-9

### Impurities/additives/constituents:

Name of substance	Identifier	Wt%
D-(+)-Limonene	CAS No 5989-27-5	10-<25
DL-a-Pinene	CAS No 80-56-8	10-<25
β-Caryophyllene	CAS No 87-44-5	10-<25
ß-Pinene	CAS No 127-91-3	10-<25
β-Bisabolene	CAS No 495-61-4	1 - < 5
Myrcene	CAS No 123-35-3	1 - < 5
δ-3-Carene	CAS No 13466-78-9	1 - < 5
Linalool	CAS No 78-70-6	<1

### 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

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.



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#### **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, Irritation, Allergic reactions
- **4.3 Indication of any immediate medical attention and special treatment needed** none

### 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. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. 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

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

#### 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



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### 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.

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

### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

Ground/bond container and receiving equipment.

#### **Ventilation requirements**

Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.



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### **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
D-(+)-Limonene	5989-27-5	DNEL	66.7 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
D-(+)-Limonene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DL-α-Pinene	80-56-8	DNEL	3.8 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
DL-α-Pinene	80-56-8	DNEL	0.542 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ß-Pinene	127-91-3	DNEL	5.69 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
ß-Pinene	127-91-3	DNEL	0.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ß-Pinene	127-91-3	DNEL	54 µg/cm²	human, dermal	worker (industry)	chronic - 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/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

#### **Relevant PNECs of components** Name of sub-Threshol **Exposure time CAS No** End-Organism **Environmental** stance d level point compartment 14 <sup>µg</sup>/<sub>l</sub> D-(+)-Limonene 5989-27-5 PNEC aquatic organfreshwater short-term (single isms instance) 1.4 <sup>µg</sup>/<sub>l</sub> D-(+)-Limonene 5989-27-5 PNEC aquatic organmarine water short-term (single instance) isms 1.8 <sup>mg</sup>/<sub>l</sub> aquatic organ-D-(+)-Limonene 5989-27-5 PNEC sewage treatment short-term (single plant (STP) instance) isms 3.85 <sup>mg</sup>/<sub>kg</sub> D-(+)-Limonene 5989-27-5 PNEC freshwater sedishort-term (single aquatic organisms ment instance) aquatic organ-D-(+)-Limonene 5989-27-5 PNEC 0.385 mg/ marine sediment short-term (single isms instance) kg



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Relevant PNECs of components							
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time	
D-(+)-Limonene	5989-27-5	PNEC	0.763 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)	
DL-a-Pinene	80-56-8	PNEC	0.606 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	0.061 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	0.2 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	157 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	15.7 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)	
DL-α-Pinene	80-56-8	PNEC	31.7 <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> / kg	aquatic organ- isms	marine sediment	short-term (single instance)	
ß-Pinene	127-91-3	PNEC	0.067 <sup>mg</sup> / kg	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)	
Linalool	78-70-6	PNEC	10 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)	
Linalool	78-70-6	PNEC	2.22 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)	
Linalool	78-70-6	PNEC	0.222 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)	
Linalool	78-70-6	PNEC	0.327 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)	

### 8.2 Exposure controls

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### Individual protection measures (personal protective equipment)

### **Eye/face protection**

Use safety goggle with side protection.

### **Skin protection**



### hand protection

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: acrylonitrile-butadiene rubber

#### material thickness

0,7mm

### • breakthrough times of the glove material

>10 minutes (permeation: level 1)

#### 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 °C , colour code: Brown).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.



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

9.1	Information on basic physical and chemical properties				
	Physical state	liquid			
	Colour	clear - yellowish brown			
	Odour	characteristic			
	Melting point/freezing point	<-20 °C (ECHA)			
	Boiling point or initial boiling point and boiling range	196 °C at 101,325 Pa (ECHA)			
	Flammability	flammable liquid in accordance with GHS criteria			
	Lower and upper explosion limit	not determined			
	Flash point	49.8 °C at 101,325 Pa (ECHA)			
	Auto-ignition temperature	235 °C at 99,585 Pa (ECHA)			
	Decomposition temperature	not relevant			
	pH (value)	not determined			
	Kinematic viscosity	not determined			
	Solubility(ies)				
	Water solubility	not determined			
	Partition coefficient				
	Partition coefficient n-octanol/water (log value):	this information is not available			
	Vapour pressure	not determined			
		not determined			
	Density and/or relative density				
	Density	0.88 <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			
9.2	Other information				
	Information with regard to physical hazard classes:	There is no additional information.			
	Other safety characteristics:				
	Surface tension	61.13 <sup>mN</sup> / <sub>m</sub> (19.9 °C) (ECHA)			
	Refractive index	1.47 – 1.49 (20 °C)			



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

### 10.1 Reactivity

It's a reactive substance. Risk of ignition.

### If heated

Risk of ignition. 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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### **10.5** Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

### **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					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA

### Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
β-Caryophyllene	87-44-5	oral	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	mouse
D-(+)-Limonene	5989-27-5	oral	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat
DL-a-Pinene	80-56-8	dermal	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat
DL-a-Pinene	80-56-8	oral	LD50	3,700 <sup>mg</sup> / <sub>kg</sub>	rat
ß-Pinene	127-91-3	oral	LD50	4,700 <sup>mg</sup> / <sub>kg</sub>	rat
δ-3-Carene	13466-78-9	oral	LD50	4,800 <sup>mg</sup> / <sub>kg</sub>	rat
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



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Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
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

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### 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.

### 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

Data are not available.

#### • 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  $\geq 0,1\%$ .

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

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acu	ute)			
Endpoint	Value	Species	Source	Exposure time
EL50	7.9 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	48 h

### Aquatic toxicity (acute) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
β-Caryophyllene	87-44-5	EC50	>0.17 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
β-Caryophyllene	87-44-5	ErC50	>0.033 <sup>mg</sup> / <sub>l</sub>	algae	72 h
D-(+)-Limonene	5989-27-5	LC50	0.46 <sup>mg</sup> / <sub>l</sub>	fish	96 h
D-(+)-Limonene	5989-27-5	EC50	0.307 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
D-(+)-Limonene	5989-27-5	ErC50	0.32 <sup>mg</sup> / <sub>l</sub>	algae	72 h
DL-a-Pinene	80-56-8	LC50	0.303 <sup>mg</sup> / <sub>l</sub>	fish	96 h
DL-a-Pinene	80-56-8	EC50	0.475 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 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
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
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> / <sub>l</sub>	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156.7 <sup>mg</sup> / <sub>l</sub>	algae	96 h

### Aquatic toxicity (chronic) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
D-(+)-Limonene	5989-27-5	EC50	<0.67 <sup>mg</sup> / <sub>l</sub>	fish	8 d
D-(+)-Limonene	5989-27-5	EC50	188 <sup>µg</sup> / <sub>l</sub>	aquatic invertebrates	21 d
ß-Pinene	127-91-3	EC50	326 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h
Linalool	78-70-6	EC50	>100 <sup>mg</sup> / <sub>l</sub>	microorganisms	30 min



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### 12.2 Persistence and degradability

### **Biodegradation**

Not readily biodegradable.

Process of degradability				
Process	Degradation rate	Time		
oxygen depletion	34 %	14 d		

### Degradability of components

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
β-Caryophyl- lene	87-44-5	oxygen deple- tion	10 %	28 d		ECHA
D-(+)-Limonene	5989-27-5	carbon dioxide generation	58.8 %	14 d		ECHA
D-(+)-Limonene	5989-27-5	oxygen deple- tion	80 %	28 d		ECHA
DL-a-Pinene	80-56-8	oxygen deple- tion	68 %	28 d		ECHA
ß-Pinene	127-91-3	oxygen deple- tion	76 %	28 d		ECHA
Myrcene	123-35-3	oxygen deple- tion	76 %	28 d		ECHA
Linalool	78-70-6	oxygen deple- tion	40.9 %	5 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components					
Name of substance	CAS No	BCF	Log KOW	BOD5/COD	
β-Caryophyllene	87-44-5		6.23 (pH value: 7, 25 °C)		
D-(+)-Limonene	5989-27-5		4.38 (pH value: 7.2, 37 °C)		
DL-a-Pinene	80-56-8		4.83		
δ-3-Carene	13466-78-9		4.38		
Myrcene	123-35-3		4.82 (pH value: ~6.5, 30 °C)		
Linalool	78-70-6		2.9 (pH value: 7, 20 °C)		

### 12.4 Mobility in soil

Data are not available.

# **12.5 Results of PBT and vPvB assessment** Data are not available.

### 12.6 Endocrine disrupting properties

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



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### 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.

### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

### Relevant provisions relating to waste(Basel Convention)

### Properties of waste which render it hazardous

**H3** Flammable liquids

H11 Toxic (Delayed or chronic)

### 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	
	UN RTDG	UN 1197
	IMDG-Code	UN 1197
	ICAO-TI	UN 1197
14.2	UN proper shipping name	
	UN RTDG	EXTRACTS, LIQUID
	IMDG-Code	EXTRACTS, LIQUID
	ICAO-TI	Extracts, liquid
14.3	Transport hazard class(es)	
	UN RTDG	3
	IMDG-Code	3
	ICAO-TI	3
14.4	Packing group	
	UN RTDG	III
	IMDG-Code	III

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	ICAO-TI	III
14.5	Environmental hazards	hazardous to the aquatic environment
14.6	Special precautions for user	
	There is no additional information.	
14.7	Transport in bulk according to IMO instrument	S
	The cargo is not intended to be carried in bulk.	
14.8	Information for each of the UN Model Regulation	ons
	Transport informationNational regulationsAdd	itional information(UN RTDG)
	UN number	1197
	Class	3
	Environmental hazards	Yes Hazardous to the aquatic environment
	Packing group	III
	Danger label(s)	3 Fish and tree
	Special provisions (SP)	223 UN RTDG
	Excepted quantities (EQ)	E1 UN RTDG
	Limited quantities (LQ)	5 L UN RTDG
	Emergency Action Code	3Y
	International Maritime Dangerous Goods Code	(IMDG) - Additional information
	Proper shipping name	EXTRACTS, LIQUID
	Particulars in the shipper's declaration	UN1197, EXTRACTS, LIQUID, (Oil of pepper), 3, III, 49.8°C c.c., MARINE POLLUTANT
	Marine pollutant	<b>Yes</b> (hazardous to the aquatic environment)
	Danger label(s)	3, "Fish and tree"
	Special provisions (SP)	223, 955
	Excepted quantities (EQ)	E1
	Limited quantities (LQ)	5 L
	EmS	F-E, S-D
	Stowage category	A

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International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information					
Proper shipping name	Extracts, liquid				
Particulars in the shipper's declaration	UN1197, Extracts, liquid, 3, III				
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)				
Danger label(s)	3				
Special provisions (SP)	A3				
Excepted quantities (EQ)	E1				
Limited quantities (LQ)	10 L				

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

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

### National regulations(Australia)

### Australian Inventory of Chemical Substances(AICS)

Substance is listed.

### **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
EU	REACH Reg.	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
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
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory

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### 15.2 Chemical Safety Assessment

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

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

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

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1		National inventories: change in the listing (table)	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
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	
ED	Endocrine disruptor	
EINECS	European Inventory of Existing Commercial Chemical Substances	
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms	
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	
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	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	



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Abbr.	Descriptions of used abbreviations	
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	
UN RTDG	UN Recommendations on the Transport of Dangerous Good	
vPvB	Very Persistent and very Bioaccumulative	

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. 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
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.

### Disclaimer

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