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



## Oil of Scotch pine needles , artificial

article number: **3306** Version: **2.0 en** Replaces version of: 2020-09-16 Version: (1)

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

1.1 Product identifier

Identification of the substance

Article number

**Registration number (REACH)** 

Alternative name(s)

Oil of Scotch pine needles , artificial

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not relevant (mixture)

Oleum Pini silvestris

## 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).

## 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 Centre Beaumont Hospital	Beaumont Road	Dublin 9	01 809 2166	https:// www.poisons.ie/

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	3	Flam. Liq. 3	H226
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315

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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.4S	Skin sensitisation	1	Skin Sens. 1	H317
3.10	Aspiration hazard	1	Asp. Tox. 1	H304
4.1A	Hazardous to the aquatic environment - acute hazard		Aquatic Acute 1	H400
4.1C	Hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

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. Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word

Danger

#### **Pictograms**



## Hazard statements

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H410	Very toxic to aquatic life with long lasting effects

#### **Precautionary statements**

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

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking
P273	Avoid release to the environment
P280	Wear protective gloves/eye protection

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

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing

#### Hazardous ingredients for labelling:

DL- $\alpha$ -Pinene,  $\beta$ -Pinene, D-(+)-Limonene, DL-Limonene,  $\delta$ -3-Carene, Myrcene,  $\beta$ -Caryophyllene, Terpinolene

# Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

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May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

P280 P302+P352 contains: Wear protective gloves/eye protection. IF ON SKIN: Wash with plenty of soap and water. DL-α-Pinene, β-Pinene, D-(+)-Limonene, DL-Limonene, δ-3-Carene, Myrcene, β-Caryophyllene, Terpinolene

## 2.3 Other hazards

## Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

## 3.1 Substances

not relevant (mixture)

## 3.2 Mixtures

## Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
DL-a-Pinene	CAS No 80-56-8 EC No 201-291-9	55 - < 85	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1A / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
ß-Pinene	CAS No 127-91-3 EC No 204-872-5	10 - < 20	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
Myrcene	CAS No 123-35-3 EC No 204-622-5	1 - < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411		IARC: 2B
δ-3-Carene	CAS No 13466-78-9 EC No 236-719-3	1 - < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
DL-Limonene	CAS No 138-86-3 EC No 205-341-0 Index No 601-029-00-7	1 - < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		C(a) GHS-HC





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Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
D-(+)-Limonene	CAS No 5989-27-5	1-<5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317		GHS-HC
	EC No 227-813-5		Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412		
	Index No 601-096-00-2				
Camphene	CAS No 79-92-5	1 - < 5	Flam. Sol. 1 / H228 Eye Irrit. 2 / H319 Aquatic Acute 1 / H400		
	EC No 201-234-8		Aquatic Chronic 1 / H410	× ×	
Terpinolene	CAS No 586-62-9	< 1	Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400	(!)	
	EC No 209-578-0		Aquatic Chronic 1 / H410		
β-Caryophyllene	CAS No 87-44-5	< 1	Skin Sens. 1 / H317 Asp. Tox. 1 / H304	(!)	
	EC No 201-746-1			<ul><li>✓</li><li>✓</li></ul>	

Notes

C(a): Mixture of isomers
 GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI)
 IARC: IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)

IARC: 2B:

Name of sub- stance	Identifier	Specific Conc. Limits	<b>M-Factors</b>	ΑΤΕ	Exposure route
DL-a-Pinene	CAS No 80-56-8 EC No 201-291-9	-	-	1.000 <sup>mg</sup> / <sub>kg</sub>	oral
Camphene	CAS No 79-92-5 EC No 201-234-8	-	M-factor (chronic) = 10.0	-	

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.

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## **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.

#### **Following ingestion**

Rinse mouth with water (only if the person is conscious). Call a physician immediately. Call a doctor. Observe aspiration hazard if vomiting occurs.

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

Aspiration hazard, Vomiting, 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 $_2$ ), 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. 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.

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## **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. Danger of explosion.

## 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.

## **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.

#### 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. 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.

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#### 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.

## **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 of the mixture CAS No** Used in **Exposure time** Name of sub-End-Threshol Protection goal, route of stance point d level exposure DL-a-Pinene DNEL 3,8 mg/m<sup>3</sup> human, inhalatworker (industry) 80-56-8 chronic - systemic ory effects DL-a-Pinene 80-56-8 DNEL 0,542 mg/ human, dermal worker (industry) chronic - systemic kg bw/day effects **ß-Pinene** 127-91-3 DNEL 5,69 mg/ human, inhalatworker (industry) chronic - systemic m³ effects ory **R**-Pinene 127-91-3 DNFI 0,8 mg/kg human, dermal worker (industry) chronic - systemic bw/day effects 127-91-3 DNEL chronic - local ef**ß-Pinene** 54 µg/cm<sup>2</sup> human, dermal worker (industry) fects DNEL human, inhalat-Camphene 79-92-5 worker (industry) chronic - systemic 110,2 mg/ m<sup>3</sup> ory effects human, inhalat-Camphene 79-92-5 DNEL 110,2 mg/ worker (industry) acute - systemic effects m<sup>3</sup> ory Camphene 79-92-5 DNEL 0,21 mg/kg human, dermal worker (industry) chronic - systemic bw/day effects Camphene 79-92-5 DNFL 1,25 mg/kg human, dermal worker (industry) acute - systemic bw/day effects human, inhalat-D-(+)-Limonene 5989-27-5 DNEL 66,7 mg/ worker (industry) chronic - systemic m³ effects orv 5989-27-5 DNEL human, dermal D-(+)-Limonene 9,5 mg/kg worker (industry) chronic - systemic bw/day effects



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Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure tir
DL-α-Pinene	80-56-8	PNEC	0,606 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (sin instance)
DL-α-Pinene	80-56-8	PNEC	0,061 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (sin 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 (sin instance)
DL-α-Pinene	80-56-8	PNEC	157 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (sin instance)
DL-α-Pinene	80-56-8	PNEC	15,7 <sup>µg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (sin instance)
DL-α-Pinene	80-56-8	PNEC	31,7 <sup>µg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (sin instance)
ß-Pinene	127-91-3	PNEC	1,004 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (sin instance)
ß-Pinene	127-91-3	PNEC	0,1 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (sin instance)
ß-Pinene	127-91-3	PNEC	3,26 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (sin instance)
ß-Pinene	127-91-3	PNEC	0,337 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (sir instance)
ß-Pinene	127-91-3	PNEC	0,034 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (sir instance)
ß-Pinene	127-91-3	PNEC	0,067 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (sin instance)
Camphene	79-92-5	PNEC	0,001 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (sin instance)
Camphene	79-92-5	PNEC	0 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (sin instance)
Camphene	79-92-5	PNEC	10 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (sin instance)
Camphene	79-92-5	PNEC	0,026 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (sin instance)
Camphene	79-92-5	PNEC	0,003 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (sin instance)
Camphene	79-92-5	PNEC	0,021 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (sin instance)
D-(+)-Limonene	5989-27-5	PNEC	14 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (sin instance)
D-(+)-Limonene	5989-27-5	PNEC	1,4 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (sin instance)
D-(+)-Limonene	5989-27-5	PNEC	1,8 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (sir instance)
D-(+)-Limonene	5989-27-5	PNEC	3,85 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (sin instance)

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Relevant PNECs of components of the mixture							
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time	
D-(+)-Limonene	5989-27-5	PNEC	0,385 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)	
D-(+)-Limonene	5989-27-5	PNEC	0,763 <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**



## 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 (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 °C , colour code: Brown).

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## **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 clear - colourless - light yellow Odour characteristic Melting point/freezing point not determined Boiling point or initial boiling point and boiling ~154 °C (data apply to the main component) range Flammability flammable liquid in accordance with GHS criteria 39 g/m3 (LEL) - 345 g/m3 (UEL) / Lower and upper explosion limit 0,7 vol% (LEL) - 6,1 vol% (UEL) (data apply to the main component) 45 °C Flash point Auto-ignition temperature 255 °C (data apply to the main component) Decomposition temperature not relevant not determined pH (value) not determined Kinematic viscosity Solubility(ies) Water solubility (practically insoluble) Partition coefficient this information is not available Partition coefficient n-octanol/water (log value): not determined Vapour pressure Density and/or relative density 0,87 <sup>g</sup>/<sub>cm<sup>3</sup></sub> at 20 °C Density 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 There is no additional information. Information with regard to physical hazard classes:

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Other safety characteristics:

Refractive index

Temperature class (EU, acc. to ATEX)

1,47 - 1,485 (20 °C)

T3 Maximum permissible surface temperature on the equipment: 200°C

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

## 10.1 Reactivity

The mixture contains reactive substance(s). 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 hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

## **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## Classification according to GHS (1272/2008/EC, CLP)

## Acute toxicity

Harmful if swallowed.

Acute toxicity estimate (ATE) of components of the mixture							
Name of substance         CAS No         Exposure route         ATE							
DL-a-Pinene	80-56-8	oral	1.000 <sup>mg</sup> / <sub>kg</sub>				

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Acute toxicity of components of the mixture						
Name of substance	CAS No	Exposure route	Endpoint	Value	Species	
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	
D-(+)-Limonene	5989-27-5	oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat	
DL-Limonene	138-86-3	oral	LD50	5.300 <sup>mg</sup> / <sub>kg</sub>	rat	
β-Caryophyllene	87-44-5	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	mouse	
Terpinolene	586-62-9	oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat	
Terpinolene	586-62-9	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat	

## 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

vomiting, aspiration hazard

## • If in eyes

slightly irritant but not relevant for classification

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## • 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

None of the ingredients are listed.

## 11.3 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
DL-α-Pinene	80-56-8	LC50	0,303 <sup>mg</sup> / <sub>l</sub>	fish	96 h
DL-α-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
Camphene	79-92-5	LC50	0,72 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Camphene	79-92-5	EC50	0,72 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Camphene	79-92-5	ErC50	>1.000 <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-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> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h
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

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



## Oil of Scotch pine needles , artificial

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Aquatic toxicity (acute) of components of the mixture							
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time		
Terpinolene	586-62-9	LC50	0,805 <sup>mg</sup> / <sub>l</sub>	fish	96 h		
Terpinolene	586-62-9	EC50	0,634 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h		
Terpinolene	586-62-9	ErC50	0,692 <sup>mg</sup> / <sub>l</sub>	algae	72 h		

## Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
ß-Pinene	127-91-3	EC50	326 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h
Camphene	79-92-5	EC50	>1.000 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h
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
Terpinolene	586-62-9	EC50	69 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h

## Biodegradation

Data are not available.

## 12.2 Process of degradability

Degradability of components of the mixture							
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source	
DL-α-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	
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	
β-Caryophyl- lene	87-44-5	oxygen deple- tion	10 %	28 d		ECHA	
Terpinolene	586-62-9	oxygen deple- tion	81 %	28 d		ECHA	

## 12.3 Bioaccumulative potential

Data are not available.

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



## Oil of Scotch pine needles , artificial

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ioaccumulative potential of components of the mixture						
Name of substance	CAS No	BCF	Log KOW	BOD5/COD		
DL-α-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)			
Camphene	79-92-5		4,22 (pH value: 7,2, 37 °C)			
D-(+)-Limonene	5989-27-5		4,38 (pH value: 7,2, 37 °C)			
DL-Limonene	138-86-3		4,57			
β-Caryophyllene	87-44-5		6,23 (pH value: 7, 25 °C)			
Terpinolene	586-62-9		4,47			

## 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** None of the ingredients are listed.
- 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.

## 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. Waste catalogue ordinance (Germany).

## 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.

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SEC	TION 14: Transport information	
14.1	UN number or ID number	
	ADR/RID/ADN	UN 1993
	IMDG-Code	UN 1993
	ICAO-TI	UN 1993
14.2	UN proper shipping name	
	ADR/RID/ADN	FLAMMABLE LIQUID, N.O.S.
	IMDG-Code	FLAMMABLE LIQUID, N.O.S.
	ICAO-TI	Flammable liquid, n.o.s.
	Technical name (hazardous ingredients)	DL-α-Pinene, Camphene
14.3	Transport hazard class(es)	
	ADR/RID/ADN	3
	IMDG-Code	3
	ICAO-TI	3
14.4	Packing group	
	ADR/RID/ADN	III
	IMDG-Code	III
	ICAO-TI	III
14.5	Environmental hazards	hazardous to the aquatic environment
	Environmentally hazardous substance (aquatic environment):	DL-a-Pinene
14.6	Special precautions for user	

## 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

# Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Particulars in the transport document	UN1993, FLAMMABLE LIQUID, N.O.S., (contains: DL-α-Pinene, Camphene), 3, III, (D/E), environ- mentally hazardous
Classification code	F1
Danger label(s)	3, "Fish and tree"



Environmental hazards

yes (hazardous to the aquatic environment)

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## Oil of Scotch pine needles , artificial

Special provisions (SP)	274, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	D/E
Hazard identification No	30
International Maritime Dangerous Goods Co	ode (IMDG) - Additional information
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Particulars in the shipper's declaration	UN1993, FLAMMABLE LIQUID, N.O.S., (contains: DL-α-Pinene, Camphene), 3, III, 45°C c.c., MARINE POLLUTANT
Marine pollutant	<b>Yes</b> (hazardous to the aquatic environment), (DL- $\alpha$ -Pinene)
Danger label(s)	3, "Fish and tree"
Special provisions (SP)	223, 274, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, <u>S-E</u>
Stowage category	A
International Civil Aviation Organization (IC	AO-IATA/DGR) - Additional information
Proper shipping name	Flammable liquid, n.o.s.
Particulars in the shipper's declaration	UN1993, Flammable liquid, n.o.s., (contains: DL-α- Pinene, Camphene), 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

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



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## **SECTION 15: Regulatory information**

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

**Relevant provisions of the European Union (EU)** 

## **Restrictions according to REACH, Annex XVII**

Name of substance	Name acc. to inventory	CAS No	Restriction	No
Oil of Scotch pine needles	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Myrcene	flammable / pyrophoric		R40	40
Myrcene	substances in tattoo inks and perman- ent make-up		R75	75
ß-Pinene	flammable / pyrophoric		R40	40
ß-Pinene	substances in tattoo inks and perman- ent make-up		R75	75
δ-3-Carene	flammable / pyrophoric		R40	40
DL-Limonene	flammable / pyrophoric		R40	40
DL-Limonene	substances in tattoo inks and perman- ent make-up		R75	75
D-(+)-Limonene	flammable / pyrophoric		R40	40
D-(+)-Limonene	substances in tattoo inks and perman- ent make-up		R75	75
Camphene	flammable / pyrophoric		R40	40
DL-α-Pinene	flammable / pyrophoric		R40	40
β-Caryophyllene	substances in tattoo inks and perman- ent make-up		R75	75

Legend R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

tricks and jokes,

games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
Articles not complying with paragraph 1 shall not be placed on the market.
Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

or both. if they

can be used as fuel in decorative oil lamps for supply to the general public, and
 present an aspiration hazard and are labelled with H304.

Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN) 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and pack-aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following require-ments are met:

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

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



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#### Legend R40

- 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: metallic glitter intended mainly for decoration,
- artificial snow and frost,

- 'whoopee' cushions,
   silly string aerosols,
   imitation excrement,
   horns for parties,
   decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.

- 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).

4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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

## Oil of Scotch pine needles , artificial

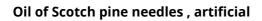


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Lege	
R75	<ol> <li>Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such sub stances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:</li> </ol>
	(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
	(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by
	weight; (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat- egory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by
	weight; (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive cat- egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than: (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
	<ul> <li>(ii) 0,01 % by weight, in all other cases;</li> <li>(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;</li> <li>(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the</li> </ul>
	mixture in a concentration equal to or greater than 0,00005 % by weight: (i) "Rinse-off products"; (ii) "Not to be used in products applied on mucous membranes";
	(iii) "Not to be used in eye products"; (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use
	preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen- tration equal to or greater than the concentration limit specified for that substance in that Appendix. 2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mix- ture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures com- monly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim o
	making a mark or design on his or her body. 3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of
	<ul> <li>4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:</li> <li>(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);</li> </ul>
	(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6). 5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a sub
	stance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of ap- plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para- graph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
	6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date of the act by which that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date.
	date falling 18 months after entry into force of the act by which that amendment was made. 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information: (a) the statement "Mixture for use in tattoos or permanent make-up";
	(b) a reference number to uniquely identify the batch; (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shal be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Im purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of
	this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredi- ent does not need to be marked in accordance with this Regulation; (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra-
	tion limit specified in Appendix 13; (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
	(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible.
	The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.
	Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this para- graph.
	8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

tattooing purposes.

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





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#### Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

#### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

#### **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				
E1	environmental hazards (hazardous to the aquatic en- vironment, cat. 1)	100 200	56)				

Notation

56) Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

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

, 862,2 <sup>g</sup> / <sub>l</sub>
-------------------------------------

#### Industrial Emissions Directive (IED)

VOC content	99,1 %
VOC content	862,2 <sup>g</sup> / <sub>l</sub>

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

none of the ingredients are listed

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

none of the ingredients are listed

#### Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Myrcene	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		A)	

Legend

A)

Indicative list of the main pollutants

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



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## Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

## **Regulation on drug precursors**

none of the ingredients are listed

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

none of the ingredients are listed

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

none of the ingredients are listed

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

none of the ingredients are 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	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

#### Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EÌNEĆS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSO	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals 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
TSCA	Toxic Substance Control Act

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



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## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1		The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.	yes
2.2	Hazardous ingredients for labelling: DL-α-Pinene, ß-Pinene, D-(+)-Limonene, DL-Li- monene	Hazardous ingredients for labelling: DL-α-Pinene, β-Pinene, D-(+)-Limonene, DL-Li- monene, δ-3-Carene, Myrcene, β-Caryophyllene, Terpinolene	yes
2.2	contains: DL-α-Pinene, ß-Pinene, D-(+)-Limonene, DL-Li- monene	contains: DL-α-Pinene, ß-Pinene, D-(+)-Limonene, DL-Li- monene, δ-3-Carene, Myrcene, β-Caryophyllene, Terpinolene	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

Restructuring: section 9, section 14

## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand

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Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
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)
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
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IARC	International Agency for Research on Cancer
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 specified time interval
LEL	Lower explosion limit (LEL)
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic

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



## Oil of Scotch pine needles , artificial

## article number: **3306**

Abbr.	Descriptions of used abbreviations
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)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
SVHC	Substance of Very High Concern
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

Code	Text
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

## Disclaimer

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