

# Safety data sheet

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



## Oil of lavender natural

article number: **3367**  
Version: **2.0 en**  
Replaces version of: 2017-02-10  
Version: (1)

date of compilation: 2017-02-10  
Revision: 2021-09-10

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

### 1.1 Product identifier

Identification of the substance **Oil of lavender natural**  
Article number 3367  
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses: Laboratory chemical  
Laboratory and analytical use  
Uses advised against: 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 sheet: Department Health, Safety and Environment

**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 according to Regulation (EC) No 1272/2008 (CLP)

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	2	Eye Irrit. 2	H319
3.4S	Skin sensitisation	1	Skin Sens. 1	H317
3.10	Aspiration hazard	1	Asp. Tox. 1	H304

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Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
4.1A	Hazardous to the aquatic environment - acute hazard	1	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

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

GHS07, GHS08,  
GHS09



#### Hazard statements

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  
H410 Very toxic to aquatic life with long lasting effects

#### Precautionary statements

##### Precautionary statements - prevention

P273 Avoid release to the environment  
P280 Wear protective gloves/eye protection

##### Precautionary statements - response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor  
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  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention

#### Hazardous ingredients for labelling:

DL- $\alpha$ -Pinene, Linalool, D-(+)-Limonene, Acetic acid linalyl ester,  $\beta$ -Caryophyllene, ( $\pm$ )-S-Citronellol, Myrcene,  $\beta$ -Pinene, Terpinolene, L-(-)-Limonene

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

Signal word: **Danger**

Symbol(s)



H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.

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P280 Wear protective gloves/eye protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
contains: DL- $\alpha$ -Pinene, Linalool, D-(+)-Limonene, Acetic acid linalyl ester,  $\beta$ -Caryophyllene, ( $\pm$ )-S-Citronellol, Myrcene,  $\beta$ -Pinene, Terpinolene, L-(-)-Limonene

### 2.3 Other hazards

This material is combustible, but will not ignite readily.

#### 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 substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Linalool	CAS No 78-70-6  EC No 201-134-4  Index No 603-235-00-2  REACH Reg. No 01-2119474016- 42-xxxx	10 – < 25	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317		GHS-HC
Acetic acid linalyl ester	CAS No 115-95-7  EC No 204-116-4	5 – < 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317		
D-(+)-Limonene	CAS No 5989-27-5  EC No 227-813-5  Index No 601-029-00-7  REACH Reg. No 01-2119529223- 47-xxxx	5 – < 10	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		C(b) GHS-HC
( $\pm$ )- $\beta$ -Citronellol	CAS No 106-22-9  EC No 203-375-0  REACH Reg. No 01-2119453995- 23-xxxx	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317		

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Myrcene	CAS No 123-35-3  EC No 204-622-5  REACH Reg. No 01-2119514321- 56-xxxx	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
$\beta$ -Pinene	CAS No 127-91-3  EC No 204-872-5	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- $\alpha$ -Pinene	CAS No 80-56-8  EC No 201-291-9  REACH Reg. No 01-2119519223- 49-xxxx	1 – < 5	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		
$\beta$ -Caryophyllene	CAS No 87-44-5  EC No 201-746-1	1 – < 5	Skin Sens. 1 / H317 Asp. Tox. 1 / H304		
$\alpha$ -Terpinene	CAS No 99-86-5  EC No 202-795-1	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		
Terpinolene	CAS No 586-62-9  EC No 209-578-0  REACH Reg. No 01-2119982325- 32-xxxx	1 – < 5	Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
Bornan-2-one	CAS No 76-22-2  EC No 200-945-0	1 – < 5	Flam. Sol. 1 / H228 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335		
Camphene	CAS No 79-92-5  EC No 201-234-8  REACH Reg. No 01-2119446293- 40-xxxx	1 – < 5	Flam. Sol. 1 / H228 Eye Irrit. 2 / H319 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		

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Name of sub-stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
(+)-Camphor	CAS No 464-49-3  EC No 207-355-2	1 – < 3	Flam. Sol. 2 / H228 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 2 / H371		
γ-Terpinene	CAS No 99-85-4  EC No 202-794-6	1 – < 3	Flam. Liq. 3 / H226 Repr. 2 / H361fd Aquatic Chronic 2 / H411		
p-Cymene	CAS No 99-87-6  EC No 202-796-7	1 – < 3	Flam. Liq. 3 / H226 Repr. 2 / H361f Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		
cis-β-Ocimene	CAS No 3338-55-4  EC No 222-081-3  REACH Reg. No C	< 1	Flam. Liq. 3 / H226 Self-heat. 2 / H252 Skin Irrit. 2 / H315 Asp. Tox. 1 / H304 Aquatic Chronic 1 / H410		
L(-)-Limonene	CAS No 5989-54-8  EC No 227-815-6  Index No 601-029-00-7  REACH Reg. No 01-2119958629- 18-xxxx	< 1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		C(b) GHS-HC
Coumarin	CAS No 91-64-5  EC No 202-086-7	< 1	Acute Tox. 3 / H301 Aquatic Chronic 3 / H412		

### Notes

C(b): The substance is a specific isomer. The mixture of isomers is mentioned in Part 3 of the Regulation (EC) No 1272/2008  
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)  
2B:

Name of sub-stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
DL-α-Pinene	CAS No 80-56-8  EC No 201-291-9	-	-	1.000 mg/kg	oral

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Name of substance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
$\alpha$ -Terpinene	CAS No 99-86-5  EC No 202-795-1	-	-	1.680 mg/kg	oral
Camphene	CAS No 79-92-5  EC No 201-234-8	-	M-factor (chronic) = 10.0	-	
(+)-Camphor	CAS No 464-49-3  EC No 207-355-2	-	-	4,5 mg/l/4h	inhalation: dust/ mist
Coumarin	CAS No 91-64-5  EC No 202-086-7	-	-	293 mg/kg	oral

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

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation 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, 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>), 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.

### 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.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 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

#### 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.

#### 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.

#### 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:

#### 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)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
GB	hydrocarbon mixture (RCP method)		WEL		800		1.600				EH40/2005
GB	bornan-2-one	76-22-2	WEL	2	13	3	19				EH40/2005
GB	cycloalkanes (>C7)	80-56-8	WEL		800						EH40/2005

##### Notation

Ceiling-C  
STEL

Ceiling value is a limit value above which exposure should not occur  
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)



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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Linalool	78-70-6	DNEL	2,8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16,5 mg/m <sup>3</sup>	human, inhalatory	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
Acetic acid linalyl ester	115-95-7	DNEL	2,75 mg/m <sup>3</sup>	human, inhalatory	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/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Acetic acid linalyl ester	115-95-7	DNEL	236,2 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
D-(+)-Limonene	5989-27-5	DNEL	66,7 mg/m <sup>3</sup>	human, inhalatory	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- $\alpha$ -Pinene	80-56-8	DNEL	3,8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
DL- $\alpha$ -Pinene	80-56-8	DNEL	0,542 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
( $\pm$ )- $\beta$ -Citronellol	106-22-9	DNEL	161,6 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
( $\pm$ )- $\beta$ -Citronellol	106-22-9	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
( $\pm$ )- $\beta$ -Citronellol	106-22-9	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
( $\pm$ )- $\beta$ -Citronellol	106-22-9	DNEL	327,4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
( $\pm$ )- $\beta$ -Citronellol	106-22-9	DNEL	2.950 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
$\beta$ -Pinene	127-91-3	DNEL	5,69 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
$\beta$ -Pinene	127-91-3	DNEL	0,8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
$\beta$ -Pinene	127-91-3	DNEL	54 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
$\alpha$ -Terpinene	99-86-5	DNEL	2,939 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
$\alpha$ -Terpinene	99-86-5	DNEL	0,833 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Camphene	79-92-5	DNEL	110,2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Camphene	79-92-5	DNEL	110,2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Camphene	79-92-5	DNEL	0,21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Camphene	79-92-5	DNEL	1,25 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Bornan-2-one	76-22-2	DNEL	17,63 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Bornan-2-one	76-22-2	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
$\gamma$ -Terpinene	99-85-4	DNEL	2,939 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
$\gamma$ -Terpinene	99-85-4	DNEL	0,833 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(+)-Camphor	464-49-3	DNEL	17,63 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(+)-Camphor	464-49-3	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
L(-)-Limonene	5989-54-8	DNEL	33,3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
L(-)-Limonene	5989-54-8	DNEL	222 $\mu$ g/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	0,2 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0,02 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2,22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0,222 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0,327 mg/kg	terrestrial organisms	soil	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Acetic acid linalyl ester	115-95-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,609 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,061 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,115 mg/kg	terrestrial organisms	soil	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	14 µg/l	aquatic organisms	freshwater	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	1,4 µg/l	aquatic organisms	marine water	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	1,8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	3,85 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	0,385 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
D-(+)-Limonene	5989-27-5	PNEC	0,763 mg/kg	terrestrial organisms	soil	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	0,606 µg/l	aquatic organisms	freshwater	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	0,061 µg/l	aquatic organisms	marine water	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	0,2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	157 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	15,7 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
DL-α-Pinene	80-56-8	PNEC	31,7 µg/kg	terrestrial organisms	soil	short-term (single instance)
(±)-β-Citronellol	106-22-9	PNEC	0,002 mg/l	aquatic organisms	freshwater	short-term (single instance)
(±)-β-Citronellol	106-22-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
(±)-β-Citronellol	106-22-9	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(±)-β-Citronellol	106-22-9	PNEC	0,026 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(±)-β-Citronellol	106-22-9	PNEC	0,003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(±)-β-Citronellol	106-22-9	PNEC	0,004 mg/kg	terrestrial organisms	soil	short-term (single instance)

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$\beta$ -Pinene	127-91-3	PNEC	1,004 $\mu\text{g}/\text{l}$	aquatic organisms	freshwater	short-term (single instance)
$\beta$ -Pinene	127-91-3	PNEC	0,1 $\mu\text{g}/\text{l}$	aquatic organisms	marine water	short-term (single instance)
$\beta$ -Pinene	127-91-3	PNEC	3,26 $\text{mg}/\text{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
$\beta$ -Pinene	127-91-3	PNEC	0,337 $\text{mg}/\text{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
$\beta$ -Pinene	127-91-3	PNEC	0,034 $\text{mg}/\text{kg}$	aquatic organisms	marine sediment	short-term (single instance)
$\beta$ -Pinene	127-91-3	PNEC	0,067 $\text{mg}/\text{kg}$	terrestrial organisms	soil	short-term (single instance)
Camphene	79-92-5	PNEC	0,001 $\text{mg}/\text{l}$	aquatic organisms	freshwater	short-term (single instance)
Camphene	79-92-5	PNEC	0 $\text{mg}/\text{l}$	aquatic organisms	marine water	short-term (single instance)
Camphene	79-92-5	PNEC	10 $\text{mg}/\text{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Camphene	79-92-5	PNEC	0,026 $\text{mg}/\text{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Camphene	79-92-5	PNEC	0,003 $\text{mg}/\text{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Camphene	79-92-5	PNEC	0,021 $\text{mg}/\text{kg}$	terrestrial organisms	soil	short-term (single instance)
Bornan-2-one	76-22-2	PNEC	1,71 $\mu\text{g}/\text{l}$	aquatic organisms	freshwater	short-term (single instance)
Bornan-2-one	76-22-2	PNEC	0,171 $\mu\text{g}/\text{l}$	aquatic organisms	marine water	short-term (single instance)
Bornan-2-one	76-22-2	PNEC	1 $\text{mg}/\text{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Bornan-2-one	76-22-2	PNEC	0,139 $\text{mg}/\text{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Bornan-2-one	76-22-2	PNEC	0,017 $\text{mg}/\text{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Bornan-2-one	76-22-2	PNEC	0,013 $\text{mg}/\text{kg}$	terrestrial organisms	soil	short-term (single instance)
$\gamma$ -Terpinene	99-85-4	PNEC	0,003 $\text{mg}/\text{l}$	aquatic organisms	freshwater	short-term (single instance)
$\gamma$ -Terpinene	99-85-4	PNEC	0 $\text{mg}/\text{l}$	aquatic organisms	marine water	short-term (single instance)
$\gamma$ -Terpinene	99-85-4	PNEC	10 $\text{mg}/\text{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
$\gamma$ -Terpinene	99-85-4	PNEC	0,49 $\text{mg}/\text{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
$\gamma$ -Terpinene	99-85-4	PNEC	0,049 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
$\gamma$ -Terpinene	99-85-4	PNEC	0,423 mg/kg	terrestrial organisms	soil	short-term (single instance)
(+)-Camphor	464-49-3	PNEC	1,71 $\mu$ g/l	aquatic organisms	freshwater	short-term (single instance)
(+)-Camphor	464-49-3	PNEC	0,171 $\mu$ g/l	aquatic organisms	marine water	short-term (single instance)
(+)-Camphor	464-49-3	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(+)-Camphor	464-49-3	PNEC	0,139 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(+)-Camphor	464-49-3	PNEC	0,017 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(+)-Camphor	464-49-3	PNEC	0,013 mg/kg	terrestrial organisms	soil	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	5,4 $\mu$ g/l	aquatic organisms	freshwater	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	0,54 $\mu$ g/l	aquatic organisms	marine water	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	0,2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	1,322 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	0,132 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
L-(-)-Limonene	5989-54-8	PNEC	0,262 mg/kg	terrestrial organisms	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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### • 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 considerable 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

0,7mm

### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

### • Splash protection - Protective gloves

• type of material: NBR (Nitrile rubber)

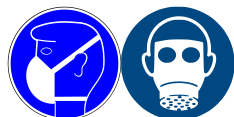
• material thickness: >0,11 mm

• 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	clear - 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	61 °C

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Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
<u>Solubility(ies)</u>	
Water solubility	not determined
<u>Partition coefficient</u>	
Partition coefficient n-octanol/water (log value):	this information is not available
Vapour pressure	not determined
Density	0,88 – 0,89 g/cm <sup>3</sup> at 20 °C
Relative vapour density	information on this property is not available
Particle characteristics	not relevant (liquid)
<u>Other safety parameters</u>	
Oxidising properties	none
<b>9.2 Other information</b>	
Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics:	
Refractive index	1,46

## 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.

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### 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

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
DL- $\alpha$ -Pinene	80-56-8	oral	1.000 mg/kg
$\alpha$ -Terpinene	99-86-5	oral	1.680 mg/kg
(+)-Camphor	464-49-3	inhalation: dust/mist	4,5 mg/l/4h
Coumarin	91-64-5	oral	293 mg/kg

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Linalool	78-70-6	oral	LD50	2.790 mg/kg	rat
Linalool	78-70-6	dermal	LD50	5.610 mg/kg	rabbit
Acetic acid linalyl ester	115-95-7	oral	LD50	>9.000 mg/kg	rat
Acetic acid linalyl ester	115-95-7	dermal	LD50	>5.000 mg/kg	rabbit
D-(+)-Limonene	5989-27-5	oral	LD50	>2.000 mg/kg	rat
$\beta$ -Caryophyllene	87-44-5	oral	LD50	>5.000 mg/kg	mouse
DL- $\alpha$ -Pinene	80-56-8	dermal	LD50	>2.000 mg/kg	rat
DL- $\alpha$ -Pinene	80-56-8	oral	LD50	3.700 mg/kg	rat
( $\pm$ )- $\beta$ -Citronellol	106-22-9	oral	LD50	3.450 mg/kg	rat
( $\pm$ )- $\beta$ -Citronellol	106-22-9	dermal	LD50	2.650 mg/kg	rabbit
Myrcene	123-35-3	oral	LD50	>3.380 mg/kg	mouse
Myrcene	123-35-3	dermal	LD50	>5.000 mg/kg	rabbit
$\beta$ -Pinene	127-91-3	oral	LD50	4.700 mg/kg	rat



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Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
$\alpha$ -Terpinene	99-86-5	oral	LD50	1.680 mg/kg	rat
$\alpha$ -Terpinene	99-86-5	dermal	LD50	>2.000 mg/kg	rat
Terpinolene	586-62-9	oral	LD50	>2.000 mg/kg	rat
Terpinolene	586-62-9	dermal	LD50	>2.000 mg/kg	rat
p-Cymene	99-87-6	oral	LD50	4.750 mg/kg	rat
p-Cymene	99-87-6	dermal	LD50	>5.000 mg/kg	rabbit
$\gamma$ -Terpinene	99-85-4	oral	LD50	>2.000 mg/kg	rat
$\gamma$ -Terpinene	99-85-4	dermal	LD50	>2.000 mg/kg	rat
(+)-Camphor	464-49-3	oral	LD50	1.310 mg/kg	mouse
(+)-Camphor	464-49-3	dermal	LD50	>2.000 mg/kg	rat
Coumarin	91-64-5	oral	LD50	293 mg/kg	rat

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### 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

Causes serious eye irritation

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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.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Linalool	78-70-6	LC50	27,8 mg/l	fish	96 h
Linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156,7 mg/l	algae	96 h
Acetic acid linalyl ester	115-95-7	ErC50	62 mg/l	algae	72 h
Acetic acid linalyl ester	115-95-7	LC50	11 mg/l	fish	96 h
Acetic acid linalyl ester	115-95-7	EC50	59 mg/l	aquatic invertebrates	48 h
D-(+)-Limonene	5989-27-5	LC50	0,46 mg/l	fish	96 h
D-(+)-Limonene	5989-27-5	EC50	0,307 mg/l	aquatic invertebrates	48 h
D-(+)-Limonene	5989-27-5	ErC50	0,32 mg/l	algae	72 h
$\beta$ -Caryophyllene	87-44-5	EC50	>0,17 mg/l	daphnia magna	48 h
$\beta$ -Caryophyllene	87-44-5	ErC50	>0,033 mg/l	algae	72 h
DL- $\alpha$ -Pinene	80-56-8	LC50	0,303 mg/l	fish	96 h
DL- $\alpha$ -Pinene	80-56-8	EC50	0,475 mg/l	aquatic invertebrates	48 h
( $\pm$ )- $\beta$ -Citronellol	106-22-9	LC50	14,66 mg/l	fish	96 h
( $\pm$ )- $\beta$ -Citronellol	106-22-9	EC50	17,48 mg/l	aquatic invertebrates	48 h
Myrcene	123-35-3	EC50	1,47 mg/l	aquatic invertebrates	48 h
Myrcene	123-35-3	EC50	0,31 mg/l	algae	72 h
Myrcene	123-35-3	ErC50	0,342 mg/l	algae	72 h
$\beta$ -Pinene	127-91-3	LC50	0,68 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h

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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
$\beta$ -Pinene	127-91-3	EC50	1,09 mg/l	daphnia magna	48 h
$\beta$ -Pinene	127-91-3	ErC50	0,7 mg/l	Pseudokirchneriella subcapitata	72 h
$\alpha$ -Terpinene	99-86-5	LC50	3.150 $\mu$ g/l	fish	96 h
$\alpha$ -Terpinene	99-86-5	EC50	1,7 mg/l	aquatic invertebrates	48 h
Terpinolene	586-62-9	LC50	0,805 mg/l	fish	96 h
Terpinolene	586-62-9	EC50	0,634 mg/l	aquatic invertebrates	48 h
Terpinolene	586-62-9	ErC50	0,692 mg/l	algae	72 h
Camphene	79-92-5	LC50	0,72 mg/l	fish	96 h
Camphene	79-92-5	EC50	0,72 mg/l	aquatic invertebrates	48 h
Camphene	79-92-5	ErC50	>1.000 mg/l	algae	72 h
Bornan-2-one	76-22-2	LC50	33,25 mg/l	fish	96 h
Bornan-2-one	76-22-2	EC50	4,23 mg/l	aquatic invertebrates	48 h
Bornan-2-one	76-22-2	ErC50	1,71 mg/l	algae	72 h
p-Cymene	99-87-6	LC50	48 mg/l	fish	96 h
p-Cymene	99-87-6	EC50	3,7 mg/l	aquatic invertebrates	48 h
p-Cymene	99-87-6	ErC50	4,03 mg/l	algae	72 h
$\gamma$ -Terpinene	99-85-4	EC50	2,792 mg/l	fish	96 h
(+)-Camphor	464-49-3	LC50	33,25 mg/l	fish	96 h
(+)-Camphor	464-49-3	EC50	4,23 mg/l	aquatic invertebrates	48 h
(+)-Camphor	464-49-3	ErC50	1,71 mg/l	algae	72 h
Coumarin	91-64-5	EC50	30,6 mg/l	daphnia pulex	48 h
Coumarin	91-64-5	LC50	56 mg/l	Poecilia reticulata	96 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
Acetic acid linalyl ester	115-95-7	LC50	11,14 mg/l	fish	20 h
D-(+)-Limonene	5989-27-5	EC50	<0,67 mg/l	fish	8 d
D-(+)-Limonene	5989-27-5	EC50	188 $\mu$ g/l	aquatic invertebrates	21 d
( $\pm$ )- $\beta$ -Citronellol	106-22-9	EC50	>10.000 mg/l	microorganisms	30 min
$\beta$ -Pinene	127-91-3	EC50	326 mg/l	microorganisms	3 h

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Terpinolene	586-62-9	EC50	69 mg/l	microorganisms	3 h
Camphene	79-92-5	EC50	>1.000 mg/l	microorganisms	3 h
Bornan-2-one	76-22-2	EC50	>100 mg/l	microorganisms	3 h
γ-Terpinene	99-85-4	EC50	>1.000 mg/l	microorganisms	3 h
(+)-Camphor	464-49-3	EC50	>100 mg/l	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	Degradation rate	Time	Method	Source
Linalool	78-70-6	oxygen depletion	40,9 %	5 d		ECHA
Acetic acid linalyl ester	115-95-7	oxygen depletion	≥0 – ≤10 %	1 d		ECHA
D-(+)-Limonene	5989-27-5	carbon dioxide generation	58,8 %	14 d		ECHA
D-(+)-Limonene	5989-27-5	oxygen depletion	80 %	28 d		ECHA
β-Caryophyllene	87-44-5	oxygen depletion	10 %	28 d		ECHA
DL-α-Pinene	80-56-8	oxygen depletion	68 %	28 d		ECHA
(±)-β-Citronellol	106-22-9	biotic/abiotic	>60 %	d	modifizierter OECD Screening Test	
(±)-β-Citronellol	106-22-9	oxygen depletion	80 – 90 %	28 d		ECHA
Myrcene	123-35-3	oxygen depletion	76 %	28 d		ECHA
β-Pinene	127-91-3	oxygen depletion	76 %	28 d		ECHA
α-Terpinene	99-86-5	oxygen depletion	30 %	14 d		ECHA
Terpinolene	586-62-9	oxygen depletion	81 %	28 d		ECHA
Bornan-2-one	76-22-2	carbon dioxide generation	85 %	28 d		ECHA
p-Cymene	99-87-6	oxygen depletion	88 %	14 d		ECHA

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### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
$\gamma$ -Terpinene	99-85-4	oxygen depletion	27 %	28 d		ECHA
L(-)-Limonene	5989-54-8	oxygen depletion	85 %	28 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Linalool	78-70-6		2,9 (pH value: 7, 20 °C)	
Acetic acid linalyl ester	115-95-7	174	3,9 (25 °C)	
D-(+)-Limonene	5989-27-5		4,38 (pH value: 7,2, 37 °C)	
$\beta$ -Caryophyllene	87-44-5		6,23 (pH value: 7, 25 °C)	
DL- $\alpha$ -Pinene	80-56-8		4,83	
( $\pm$ )- $\beta$ -Citronellol	106-22-9	82,59	3,41 (25 °C)	
Myrcene	123-35-3		4,82 (pH value: ~6,5, 30 °C)	
$\alpha$ -Terpinene	99-86-5		5,3 (35 °C)	
Terpinolene	586-62-9		4,47	
Camphene	79-92-5		4,22 (pH value: 7,2, 37 °C)	
Bornan-2-one	76-22-2		2,414 (25 °C)	
p-Cymene	99-87-6		4,8 (pH value: ~7, 20 °C)	
$\gamma$ -Terpinene	99-85-4		5,4 (25 °C)	
(+)-Camphor	464-49-3		2,3 (20 °C)	
Coumarin	91-64-5		1,39 (pH value: 7, 25 °C)	
cis- $\beta$ -Ocimene	3338-55-4		5,4 (25 °C)	
L(-)-Limonene	5989-54-8	864,8	4,38 (pH value: 7,2, 37 °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

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

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### 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.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR/RID/ADN	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

#### 14.2 UN proper shipping name

ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	D-(+)-Limonene, 7-METHYL-3-METHYLEN-1,6-OCTADIENE

#### 14.3 Transport hazard class(es)

ADR/RID/ADN	9
IMDG-Code	9
ICAO-TI	9

#### 14.4 Packing group

ADR/RID/ADN	III
IMDG-Code	III
ICAO-TI	III

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**14.5 Environmental hazards** hazardous to the aquatic environment  
Environmentally hazardous substance (aquatic environment): D-(+)-Limonene, 7-METHYL-3-METHYLEN-1,6-OCTADIENE

**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 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Particulars in the transport document UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: D-(+)-Limonene, 7-METHYL-3-METHYLEN-1,6-OCTADIENE), 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



#### **International Maritime Dangerous Goods Code (IMDG) - 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., (contains: D-(+)-Limonene, 7-METHYL-3-METHYLEN-1,6-OCTADIENE), 9, III

Marine pollutant yes (hazardous to the aquatic environment), (D-(+)-Limonene)

Danger label(s) 9, "Fish and tree"



Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1

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Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A

### International Civil Aviation Organization (ICAO-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., (contains: D-(+)-Limonene, 7-METHYL-3-METHYLEN-1,6-OCTADIENE), 9, III
Environmental hazards	YES (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

## 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)

#### Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Oil of lavender	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
cis- $\beta$ -Ocimene	flammable / pyrophoric		R40	40
cis- $\beta$ -Ocimene	substances in tattoo inks and permanent make-up		R75	75
Acetic acid linalyl ester	substances in tattoo inks and permanent make-up		R75	75
Myrcene	flammable / pyrophoric		R40	40
Myrcene	substances in tattoo inks and permanent make-up		R75	75
$\beta$ -Pinene	flammable / pyrophoric		R40	40
$\beta$ -Pinene	substances in tattoo inks and permanent make-up		R75	75
(+)-Camphor	flammable / pyrophoric		R40	40
(+)-Camphor	substances in tattoo inks and permanent make-up		R75	75
D-(+)-Limonene	flammable / pyrophoric		R40	40



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Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
L(-)-Limonene	flammable / pyrophoric		R40	40
L(-)-Limonene	substances in tattoo inks and permanent make-up		R75	75
Bornan-2-one	flammable / pyrophoric		R40	40
Camphene	flammable / pyrophoric		R40	40
DL- $\alpha$ -Pinene	flammable / pyrophoric		R40	40
$\beta$ -Caryophyllene	substances in tattoo inks and permanent make-up		R75	75
$\gamma$ -Terpinene	flammable / pyrophoric		R40	40
$\gamma$ -Terpinene	substances in tattoo inks and permanent make-up		R75	75
$\alpha$ -Terpinene	flammable / pyrophoric		R40	40
p-Cymene	flammable / pyrophoric		R40	40
p-Cymene	substances in tattoo inks and permanent 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,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
  3. 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.
  4. 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 packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements 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.;
- 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.
  2. 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.

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### Legend

- R75 1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances 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:
- (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 category 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 category 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;
    - (ii) 0,01 % by weight, in all other cases;
  - (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;
  - (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 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 concentration 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 mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of 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 paragraph 1 shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:  
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);  
(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 substance 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 application of that new or revised classification is 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 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 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 shall 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. Impurities 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 ingredient 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 concentration 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 paragraph.
8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

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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 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, 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. (Or Concentration of the substance in a mixture: <0.1 % Mass concentration)

### Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100                      200	56)

#### Notation

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

### Deco-Paint Directive

VOC content	87 % , 774,3 g/l
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### Industrial Emissions Directive (IED)

VOC content	87 %
VOC content	774,3 g/l

### 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 possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	

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

### 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

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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.	not all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not 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 (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	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

## 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

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1	Remarks: For full text of Hazard- and EU Hazard-statements: see SECTION 16.		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		The most important adverse physicochemical, human health and environmental effects: Spillage and fire water can cause pollution of watercourses.	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Hazardous ingredients for labelling: Oil of lavender, Oil of lavandin, Linalool	Hazardous ingredients for labelling: DL- $\alpha$ -Pinene, Linalool, D-(+)-Limonene, Acetic acid linalyl ester, $\beta$ -Caryophyllene, ( $\pm$ )-S-Citronellol, Myrcene, $\beta$ -Pinene, Terpinolene, L-(-)-Limonene	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
2.2	contains: Oil of lavender, Oil of lavandin, Linalool	contains: DL- $\alpha$ -Pinene, Linalool, D-(+)-Limonene, Acetic acid linalyl ester, $\beta$ -Caryophyllene, ( $\pm$ )-S-Citronellol, Myrcene, $\beta$ -Pinene, Terpinolene, L-(-)-Limonene	yes
2.3	Other hazards: There is no additional information.	Other hazards: This material is combustible, but will not ignite readily.	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

### 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 navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning 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

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Abbr.	Descriptions of used abbreviations
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
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 identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
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 Nations
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

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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
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
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RCP	Reciprocal calculation procedure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Self-heat.	Self-heating material
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### 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).



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

Code	Text
H226	Flammable liquid and vapour.
H228	Flammable solid.
H252	Self-heating in large quantities; may catch fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H371	May cause damage to organs.
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.