



# Safety Data Sheet

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

## Naturidentisches ätherisches Rosenholzöl

Version number: V 2.0  
Replaces version of: 2019-03-12 (V 1)

Revision: 2021-11-10

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

#### 1.1 Product identifier

Trade name

**Rosewood Oil**

Registration number (REACH)

not relevant (mixture)

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

Relevant identified uses

Professional use

Uses advised against

The product is not intended for consumer use.

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

Ekokoza s.r.o.

Fryčovice 297

73945, Fryčovice

IČ: 07508247

+420605779993

eshop@ekokoza.cz

#### 1.4 Emergency telephone number

Emergency information service +420224919293 , +420224915402

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	Eye Irrit. 2	H319
3.4S	skin sensitisation	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

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

- Signal word warning

- Pictograms

GHS07





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### - Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### - Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### - Hazardous ingredients for labelling

Linalool, d-Limonene, Geraniol, alpha-Pinene, beta-Pinene, Myrcene, (Z)-3,7-dimethylocta-2,6-dienal, Geranial, Geranyl acetate

## 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
Linalool	CAS No 78-70-6  EC No 201-134-4  Index No 603-235-00-2  REACH Reg. No 01-2119474016-42-xxxx	25 – < 50	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Linalool	CAS No 78-70-6  EC No 201-134-4  Index No 603-235-00-2  REACH Reg. No 01-2119474016-42-xxxx	25 – < 50	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
Terpineol synth.	CAS No 8000-41-7  EC No 701-188-3  REACH Reg. No 01-2119553062-49-xxxx	5 – < 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
d-Limonene	CAS No 5989-27-5 68606-81-5  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 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	
Geraniol	CAS No 106-24-1  EC No 203-377-1  REACH Reg. No 01-2119552430-49-xxxx	1 – < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317	
beta-Pinene	CAS No 127-91-3  EC No 204-872-5  REACH Reg. No 01-2119519230-54-xxxx	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	
gamma-Terpinene	CAS No 99-85-4  EC No 202-794-6	< 1	Flam. Liq. 3 / H226 Repr. 2 / H361 Aquatic Chronic 2 / H411	
Geranyl acetate	CAS No 105-87-3  EC No 203-341-5  REACH Reg. No 01-2119973480-35-xxxx	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412	
alpha-Pinene	CAS No 80-56-8  EC No 201-291-9  REACH Reg. No 01-2119519223-49-xxxx	< 1	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	



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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Geranial	CAS No 141-27-5  EC No 205-476-5  REACH Reg. No 01-2119911311-56-xxxx	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Myrcene	CAS No 123-35-3  EC No 204-622-5  REACH Reg. No 01-2119514321-56-xxxx	< 1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
Neral	CAS No 106-26-3  EC No 203-379-2  REACH Reg. No 01-2119924850-39-xxxx	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
alpha-Pinene	-	-	500 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

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

### 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

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

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

Hazardous combustion products

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

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

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

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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

Recommendations

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

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### 7.3 Specific end use(s)

See section 16 for a general overview.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

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	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)

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
Linalool	78-70-6	DNEL	2.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects



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Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Linalool	78-70-6	DNEL	16.5 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Terpineol synth.	8000-41-7	DNEL	44.8 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
Terpineol synth.	8000-41-7	DNEL	6.36 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
d-Limonene	5989-27-5 68606-81-5	DNEL	66.7 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
d-Limonene	5989-27-5 68606-81-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	161.6 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	12.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11,800 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local ef-fects
beta-Pinene	127-91-3	DNEL	5.69 mg/m <sup>3</sup>	human, inhalat-ory	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 ef-fects
gamma-Terpinene	99-85-4	DNEL	2.939 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
gamma-Terpinene	99-85-4	DNEL	0.833 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	62.59 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	35.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
alpha-Pinene	80-56-8	DNEL	3.8 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
alpha-Pinene	80-56-8	DNEL	0.542 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(Z)-3,7-dimethyl-octa-2,6-dienal	106-26-3	DNEL	9 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
(Z)-3,7-dimethyl-octa-2,6-dienal	106-26-3	DNEL	1.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(Z)-3,7-dimethyl-octa-2,6-dienal	106-26-3	DNEL	140 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local ef-fects



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Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organ- isms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organ- isms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 mg/kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organ- isms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organ- isms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 mg/kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
Terpineol synth.	8000-41-7	PNEC	12 µg/l	aquatic organ- isms	freshwater	short-term (single instance)
Terpineol synth.	8000-41-7	PNEC	1.2 µg/l	aquatic organ- isms	marine water	short-term (single instance)
Terpineol synth.	8000-41-7	PNEC	2.57 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Terpineol synth.	8000-41-7	PNEC	0.263 mg/ kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Terpineol synth.	8000-41-7	PNEC	0.026 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
Terpineol synth.	8000-41-7	PNEC	0.045 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	14 µg/l	aquatic organ- isms	freshwater	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	1.4 µg/l	aquatic organ- isms	marine water	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	1.8 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	3.85 mg/kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)





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d-Limonene	5989-27-5 68606-81-5	PNEC	0.385 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	0.763 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
Geraniol	106-24-1	PNEC	0.011 mg/l	aquatic organ- isms	freshwater	short-term (single instance)
Geraniol	106-24-1	PNEC	0.001 mg/l	aquatic organ- isms	marine water	short-term (single instance)
Geraniol	106-24-1	PNEC	0.7 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Geraniol	106-24-1	PNEC	0.115 mg/ kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.011 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.017 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
beta-Pinene	127-91-3	PNEC	1.004 µg/l	aquatic organ- isms	freshwater	short-term (single instance)
beta-Pinene	127-91-3	PNEC	0.1 µg/l	aquatic organ- isms	marine water	short-term (single instance)
beta-Pinene	127-91-3	PNEC	3.26 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
beta-Pinene	127-91-3	PNEC	0.337 mg/ kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
beta-Pinene	127-91-3	PNEC	0.034 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
beta-Pinene	127-91-3	PNEC	0.067 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
gamma-Terpinene	99-85-4	PNEC	0.003 mg/l	aquatic organ- isms	freshwater	short-term (single instance)
gamma-Terpinene	99-85-4	PNEC	0 mg/l	aquatic organ- isms	marine water	short-term (single instance)
gamma-Terpinene	99-85-4	PNEC	10 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
gamma-Terpinene	99-85-4	PNEC	0.49 mg/kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
gamma-Terpinene	99-85-4	PNEC	0.049 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
gamma-Terpinene	99-85-4	PNEC	0.423 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	3.72 µg/l	aquatic organ- isms	freshwater	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.372 µg/l	aquatic organ- isms	marine water	short-term (single instance)



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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Geranyl acetate	105-87-3	PNEC	8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.442 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.044 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.086 mg/kg	terrestrial organisms	soil	short-term (single instance)
alpha-Pinene	80-56-8	PNEC	0.606 µg/l	aquatic organisms	freshwater	short-term (single instance)
alpha-Pinene	80-56-8	PNEC	0.061 µg/l	aquatic organisms	marine water	short-term (single instance)
alpha-Pinene	80-56-8	PNEC	0.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
alpha-Pinene	80-56-8	PNEC	157 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
alpha-Pinene	80-56-8	PNEC	15.7 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
alpha-Pinene	80-56-8	PNEC	31.7 µg/kg	terrestrial organisms	soil	short-term (single instance)
(Z)-3,7-dimethylocta-2,6-dienal	106-26-3	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
(Z)-3,7-dimethylocta-2,6-dienal	106-26-3	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
(Z)-3,7-dimethylocta-2,6-dienal	106-26-3	PNEC	1.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(Z)-3,7-dimethylocta-2,6-dienal	106-26-3	PNEC	0.125 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(Z)-3,7-dimethylocta-2,6-dienal	106-26-3	PNEC	0.013 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(Z)-3,7-dimethylocta-2,6-dienal	106-26-3	PNEC	0.021 mg/kg	terrestrial organisms	soil	short-term (single instance)

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.



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### Skin protection

#### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

#### - Type of material

NBR: acrylonitrile-butadiene rubber

#### - Material thickness

> 0.7 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. Wash hands thoroughly after handling.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Filtering half mask (EN 149). Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

### Environmental exposure controls

Use appropriate container to avoid environmental contamination. 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 (Clear, liquid)
Colour	yellowish brown
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	75 °C
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined



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Solubility(ies)	not determined
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### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	0.27 hPa at 25 °C
-----------------	-------------------

### Density and/or relative density

Density	0.875 g/cm <sup>3</sup>
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
--------------------------	-----------------------

## 9.2 Other information

Information with regard to physical hazard classes hazard classes acc. to GHS (physical hazards): not relevant

### Flammable liquids

- Sustained combustibility	yes (sustained combustion was observed)
Other safety characteristics	there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.



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### 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

The classification criteria for these hazard classes are not met.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
alpha-Pinene	80-56-8	oral	500 mg/kg

##### 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

Shall not be classified as presenting an aspiration hazard.

#### 11.2 Information on other hazards

There is no additional information.



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### SECTION 12: Ecological information

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and 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
Linalool	78-70-6	oxygen depletion	40.9 %	5 d		ECHA
d-Limonene	5989-27-5 68606-81-5	carbon dioxide generation	58.8 %	14 d		ECHA
d-Limonene	5989-27-5 68606-81-5	oxygen depletion	80 %	28 d		ECHA
gamma-Terpinene	99-85-4	oxygen depletion	27 %	28 d		ECHA
alpha-Pinene	80-56-8	oxygen depletion	68 %	28 d		ECHA
Myrcene	123-35-3	oxygen depletion	76 %	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)	
Linalool	78-70-6		2.9 (pH value: 7, 20 °C)	
d-Limonene	5989-27-5 68606-81-5		4.38 (pH value: 7.2, 37 °C)	
Geraniol	106-24-1		2.6 (25 °C)	
beta-Pinene	127-91-3		4.425 (25 °C)	
gamma-Terpinene	99-85-4		5.4 (25 °C)	
Geranyl acetate	105-87-3		4.04	
Myrcene	123-35-3		4.82 (pH value: ~6.5, 30 °C)	
(Z)-3,7-dimethylocta-2,6-dienal	106-26-3	89.72		

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.



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### 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

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

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Relevant provisions relating to waste

Decision 2000/532/EC on the list of waste

Product, Product residues: 07 06 99 wastes not otherwise specified

Packagings: 15 01 10\* Packaging containing residues of or contaminated by hazardous substances.

Completely emptied packages can be recycled.

#### Remarks

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

## SECTION 14: Transport information

- |   |   |
|---|---|
| <b>14.1 UN number or ID number</b>                                  | not subject to transport regulations                                  |
| <b>14.2 UN proper shipping name</b>                                 | not relevant  |
| <b>14.3 Transport hazard class(es)</b>                              | none  |
| <b>14.4 Packing group</b>   | not assigned  |
| <b>14.5 Environmental hazards</b>                                   | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                            | There is no additional information.                                   |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b> | The cargo is not intended to be carried in bulk.                      |

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

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

Not subject to ADR, RID and ADN.

##### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

##### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.



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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

##### 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)

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

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

None of the ingredients are listed.

#### 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)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1			yes
1.3			yes
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.2	- Signal word: danger	- Signal word: warning	yes
2.2		- Pictograms: change in the listing (table)	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes





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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.2	- Hazardous ingredients for labelling: Linalool, Geraniol, Geranyl acetate, beta-Caryophyllene	- Hazardous ingredients for labelling: Linalool, d-Limonene, Geraniol, alpha-Pinene, beta-Pinene, Myrcene, (Z)-3,7-dimethylocta-2,6-dienal, Geranial, Geranyl acetate	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
5.2	Hazardous combustion products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)	Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO2)	yes
8.1	Control parameters: This information is not available.	Control parameters	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
9.1	Appearance		yes
9.1	Other safety parameters		yes
9.1	Flammability (solid, gas): not relevant, (fluid)	Flammability: this material is combustible, but will not ignite readily	yes
9.1	Evaporation rate: not determined		yes
9.1		Decomposition temperature: not relevant	yes
9.1		Kinematic viscosity: not determined	yes
9.1		Density and/or relative density	yes
9.1	Vapour density: this information is not available		yes
9.1	Viscosity: not determined		yes
9.1	Explosive properties: none		yes
9.1	Oxidising properties: none		yes
9.1		Relative vapour density: information on this property is not available	yes
9.1		Particle characteristics: not relevant (liquid)	yes
9.2	Other information: There is no additional information.	Other information	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
9.2		Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant	yes
9.2		Flammable liquids	yes
9.2		Sustained combustibility: yes (sustained combustion was observed)	yes
9.2		Other safety characteristics: there is no additional information	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1	Serious eye damage/eye irritation: Causes serious eye damage.	Serious eye damage/eye irritation: Causes serious eye irritation.	yes
11.1	Germ cell mutagenicity: The classification criteria for this hazard class are not met.	Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.	yes
11.1	Carcinogenicity: The classification criteria for this hazard class are not met.	Carcinogenicity: Shall not be classified as carcinogenic.	yes
11.1	Reproductive toxicity: The classification criteria for this hazard class are not met.	Reproductive toxicity: Shall not be classified as a reproductive toxicant.	yes
11.1	Specific target organ toxicity - single exposure: The classification criteria for this hazard class are not met.	Specific target organ toxicity - single exposure: Shall not be classified as a specific target organ toxicant (single exposure).	yes
11.1	Specific target organ toxicity - repeated exposure: The classification criteria for this hazard class are not met.	Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).	yes
11.1	Aspiration hazard: The classification criteria for this hazard class are not met.	Aspiration hazard: Shall not be classified as presenting an aspiration hazard.	yes
11.2		Information on other hazards: There is no additional information.	yes
12.1	Toxicity: Shall not be classified as hazardous to the aquatic environment.	Toxicity: Harmful to aquatic life with long lasting effects.	yes
12.2	Persistence and degradability: Data are not available.	Persistence and degradability	yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
12.7	Other adverse effects	Other adverse effects: Data are not available.	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
13.1	Decision 2000/532/EC on the list of waste: Product, Product residues: 07 06 99 wastes not otherwise specified Packagings: 15 01 10x Packaging containing residues of or contaminated by dangerous substances. Completely emptied packages can be recycled.	Decision 2000/532/EC on the list of waste: Product, Product residues: 07 06 99 wastes not otherwise specified Packagings: 15 01 10* Packaging containing residues of or contaminated by hazardous substances. Completely emptied packages can be recycled.	yes
14.4	Packing group: not relevant	Packing group: not assigned	yes
15.1		Regulation on persistent organic pollutants (POP): None of the ingredients are listed.	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	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 2015/830/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).	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).	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	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)
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
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)



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Abbr.	Descriptions of used abbreviations
DNEL	Derived No-Effect Level
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
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	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
log KOW	n-Octanol/water
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)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit



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### 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.
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.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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.