

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

BLACK ROSE & OUD

Version
3.0

Revision Date:
04.09.2022

SDS Number:
906953

Date of last issue: 05.08.2022
Date of first issue: 06.04.2022

Hazard pictograms :



Signal word : Warning

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

Precautionary statements : **Prevention:**
P261 Avoid breathing mist or vapours.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Hazardous components which must be listed on the label:

Citronellol
Linalyl acetate
Nerol
Geraniol
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool
cis-4-(Isopropyl)cyclohexanemethanol
citral
Geranyl acetate
Eugenol
Pentadecan-15-olide
Neryl acetate
2,3-Dihydro-2,2,6-trimethylbenzaldehyde
(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-Phenylethanol	60-12-8 200-456-2	Acute Tox. 4; H302 Eye Irrit. 2; H319	$\geq 1 - < 10$
3,7-Dimethyloctan-1-ol	106-21-8 203-374-5 01-2119955073-40	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	$\geq 2,5 - < 10$
Citronellol	106-22-9 203-375-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 1 - < 10$
Linalyl acetate	115-95-7 204-116-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 1 - < 10$
Nerol	106-25-2 203-378-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 1 - < 10$
Geraniol	106-24-1 203-377-1	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	78-70-6 201-134-4 603-235-00-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
cis-4-(Isopropyl)cyclohexanemethanol	5502-75-0 13828-37-0 237-539-8 01-2119983532-32	Skin Irrit. 2; H315 Skin Sens. 1B; H317	$\geq 0,1 - < 1$

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citral	5392-40-5 226-394-6 605-019-00-3 01-2119462829-23 01-2119462829-23	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
Geranyl acetate	105-87-3 203-341-5 01-2119973480-35	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	$\geq 0,25 - < 1$
Eugenol	97-53-0 202-589-1	Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1 240-457-5 01-2119976300-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361	$\geq 0,1 - < 1$
Pentadecan-15-olide	106-02-5 203-354-6 01-2119987323-31-0000, 01-2119987323-31-0002	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	$\geq 0,1 - < 0,25$
Neryl acetate	141-12-8 205-459-2 01-2120748334-54 01-2120748334-54 01-2120748334-54	Skin Sens. 1B; H317	$\geq 0,1 - < 1$
2,3-Dihydro-2,2,6-trimethylbenzaldehyde	116-26-7 204-133-7	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 2; H411	$\geq 0,025 - < 0,1$

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		Acute toxicity estimate	
		Acute oral toxicity: 300,03 mg/kg	
(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	23726-93-4 23696-85-7 245-844-2 01-2120105798-49 01-2120105798-49	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 2; H411	$\geq 0,0025 - < 0,025$
Substances with a workplace exposure limit :			
(2-Methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60 01-2119450011-60 01-2119450011-60 01-2119450011-60 01-2119450011-60		$\geq 1 - < 10$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.

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Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks : First aider needs to protect himself.

May cause an allergic skin reaction.
Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
There is no specific antidote available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In the event of fire and/or explosion do not breathe fumes.
Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No special restrictions on storage with other products.

Storage class (TRGS 510) : 10, Combustible liquids

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Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Fragrance mix

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-Methoxymethylethoxy)propanol	34590-94-8	MAK (vapour)	50 ppm 310 mg/m ³	DFG
		TWA	50 ppm 308 mg/m ³	91/322/EEC
		TWA	50 ppm 308 mg/m ³	EU SCOEL
		AGW (Vapor and aerosol)	50 ppm 310 mg/m ³	DE TRGS 900
Further information: Sum of vapors and aerosols.				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Citronellyl acetate	Workers	Inhalation	Long-term systemic effects	17 mg/m ³
	Workers	Skin contact	Long-term systemic effects	4,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,2 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	2,4 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2,4 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Citronellyl acetate	Fresh water	0,003 mg/l
	Fresh water sediment	0,851 mg/kg dry weight (d.w.)
	Marine water	0,000348 mg/l
	Marine sediment	0,085 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,168 mg/kg dry weight (d.w.)

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Pentadecan-15-olide	Fresh water	0,0027 mg/l
	Fresh water sediment	21 mg/kg dry weight (d.w.)
	Marine water	0,00027 mg/l
	Marine sediment	4,2 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	5,44 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm).

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Not required; except in case of aerosol formation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : clear liquid

Colour : colorless to yellow

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point :
not determined

Boiling point/boiling range : not determined

Upper explosion limit / Upper flammability limit : Vapours may form explosive mixtures with air.

Lower explosion limit / Lower flammability limit : Vapours may form explosive mixtures with air.

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flammability limit

Flash point : 95 °C

Decomposition temperature : not determined

pH : Not applicable

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-octanol/water : not determined

Vapour pressure : < 1 kPa (50 °C)
calculated

Relative density : 0,9180 - 0,9280 (20 °C)
relation to density of water at 4°C

Bulk density : Not applicable

Relative vapour density : not determined

9.2 Other information

Explosives : Due to its structural properties, the product is not classified as explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : The substance or mixture is not classified as self heating.

Evaporation rate : Lower than the evaporation rate of butyl acetate = 1

Molecular weight : not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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Hazardous reactions : No decomposition if stored and applied as directed.

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Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

2-Phenylethanol:

Acute oral toxicity : LD50 (Rat, male and female): 1.609,3 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): 2.535 mg/kg
Method: OECD Test Guideline 402
GLP: yes

3,7-Dimethyloctan-1-ol:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 2.400 mg/kg

Linalyl acetate:

Acute oral toxicity : LD50 (Rat, male and female): > 9.000 mg/kg
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
GLP: no

Nerol:

Acute oral toxicity : LD50 Oral (Rat, male): 4.500 mg/kg
Method: OECD Test Guideline 401

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GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: no

Geraniol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.600 mg/kg
GLP: No information available.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
GLP: no

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Acute oral toxicity : LD50 (Rat, male and female): 2.790 mg/kg
Method: OECD Test Guideline 401
GLP: no
Remarks: Weight of Evidence

Acute dermal toxicity : LD50 (Rabbit): 5.610 mg/kg
Method: OECD Test Guideline 402
GLP: no

cis-4-(Isopropyl)cyclohexanemethanol:

Acute oral toxicity : LD50 Oral (Rat): > 10.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

citral:

Acute oral toxicity : LD50 Oral (Rat, male and female): ca. 6.800 mg/kg
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): 2.250 mg/kg
GLP: no

Geranyl acetate:

Acute oral toxicity : LD50 Oral (Rat, male and female): 6.330 mg/kg
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.460 mg/kg
GLP: no

Eugenol:

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD 423
GLP: No information available.

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Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Acute oral toxicity : LD50 Oral (Rat): 4.300 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

Neryl acetate:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg
Method: OECD 423
GLP: yes
Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
GLP: no

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Acute oral toxicity : LD50 Oral (Rat, female): > 300 - < 2.000 mg/kg
Method: OECD 423
GLP: yes
Acute toxicity estimate: 300,03 mg/kg
Method: Calculation method

(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg
Acute dermal toxicity : LD50 Dermal: 2.900 mg/kg

(2-Methoxymethylethoxy)propanol:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity : LC50 (Rat): 500 mg/l
Exposure time: 7 h
Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

2-Phenylethanol:

Species : Rabbit
Exposure time : 4 h
Result : Mild skin irritation
GLP : No information available.

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Dose : 0,5 ml
Concentration : 100 %

3,7-Dimethyloctan-1-ol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Citronellol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Dose : 0.5 ml
Concentration : 100 %

Linalyl acetate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : No information available.
Concentration : 100 %

Nerol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Geraniol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Concentration : 100 %

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Species : Rabbit
Exposure time : 4 h

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Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Concentration : 100 %

cis-4-(Isopropyl)cyclohexanemethanol:

Species : Humans
Exposure time : 0,25 h
Method : OECD Test Guideline 439
Result : Skin irritation
GLP : yes
Concentration : 100 %

Eugenol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Concentration : 100 %

Pentadecan-15-olide:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Neryl acetate:

Species : Rabbit
Result : No skin irritation
GLP : no
Concentration : 100 %

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 439
Result : Skin irritation

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GLP : yes
Concentration : 100 %

(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Species : Humans
Exposure time : 24 h
Method : HRIPT
Result : No skin irritation
Dose : 0,4 ml
Concentration : 0,5 %

Species : Rabbit
Method : OECD Test Guideline 439
Result : Skin irritation

(2-Methoxymethylethoxy)propanol:

Species : Rabbit
Result : Mild skin irritation
Dose : 500 mg

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

2-Phenylethanol:

Species : Rabbit
Result : Eye irritation
GLP : no

3,7-Dimethyloctan-1-ol:

Species : Rabbit
Result : Eye irritation
GLP : no
Dose : 0,05 ML
Concentration : 100 %

Citronellol:

Species : Rabbit
Method : Draize Test
Result : Eye irritation
GLP : No information available.
Dose : 0.1 ML
Concentration : 100 %

Linalyl acetate:

Species : Rabbit
Result : Eye irritation
GLP : no
Concentration : 100 %

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Nerol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Moderate eye irritation
GLP : no
Dose : 0,1 ML
Concentration : 100 %

Geraniol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Corrosive
GLP : yes
Concentration : 100 %

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritating to eyes.
GLP : no
Concentration : 100 %
Remarks : Weight of Evidence

cis-4-(Isopropyl)cyclohexanemethanol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : no
Concentration : 100 %

citral:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation
GLP : no
Concentration : 100 %

Geranyl acetate:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

Eugenol:

Species : Rabbit

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Method : OECD Test Guideline 405
Result : Eye irritation
Dose : 0,1 ML
Concentration : 100 %

Pentadecan-15-olide:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %
Remarks : Information given is based on data obtained from similar substances.

Neryl acetate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

Species : Human
Method : OECD Test Guideline 492
Result : No eye irritation
GLP : yes
Dose : 0,05 ML
Concentration : 100 %

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Species : Chicken eye
Method : OECD Test Guideline 438
Result : Eye irritation
GLP : yes
Concentration : 100 %

(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Species : Rabbit
Result : No eye irritation
Dose : 0,1 ML
Concentration : 0,5 %
solvents : Propylene glycol

(2-Methoxymethylethoxy)propanol:

Species : Rabbit
Exposure time : 24 h
Result : Mild eye irritation
Dose : 500 MG

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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

2-Phenylethanol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : No sensitizing effect.
GLP : yes
Concentration : 50 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

3,7-Dimethyloctan-1-ol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : No sensitizing effect.
GLP : yes
Concentration : 60 %
solvents : Propylene glycol

Citronellol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 43,5 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Test Type : HRIPT
Species : Humans
Result : No sensitizing effect.
Concentration : 25 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Nerol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD Test Guideline 429
Result : Sensitizing effect.
GLP : yes
Concentration : 23 %
solvents : Acetone/Olive oil (4:1)

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Geraniol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : 11,4 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 35,5 %
solvents : N,N-Dimethylformamide

cis-4-(Isopropyl)cyclohexanemethanol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD Test Guideline 429
Result : No sensitizing effect.
GLP : yes
Concentration : 25 - 100 %
solvents : Acetone/Olive oil (4:1)

citral:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Sensitizing effect.
GLP : no
Concentration : 6,3 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
Concentration : 6,3 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Geranyl acetate:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 100 %

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Eugenol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : > 5,4 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Test Type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : No sensitizing effect.
Concentration : 50 %
solvents : Diethylphthalate

Pentadecan-15-olide:

Test Type : HRIPT
Species : Humans
Result : No sensitizing effect.
Concentration : 10 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 25,5 %
solvents : Acetone/Olive oil (4:1)

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Test Type : Maximisation Test
Species : Guinea pig
Method : Maximisation Test
Result : Sensitizing effect.
GLP : yes
Rate of positive effects : 20/20
Concentration : 3 %
solvents : Ethyl alcohol

(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Test Type : Local Lymph Node Assay
Species : Mouse
Result : Sensitizing effect.
Concentration : 1,24 %

(2-Methoxymethylethoxy)propanol:

Result : No sensitizing effect.

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Germ cell mutagenicity

Not classified based on available information.

Components:

2-Phenylethanol:

Genotoxicity in vitro

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

3,7-Dimethyloctan-1-ol:

Genotoxicity in vitro

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

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Citronellol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Linalyl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Strain: CD1
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

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Nerol:

Genotoxicity in vitro : Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Geraniol:

Genotoxicity in vitro : Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Result: equivocal
GLP: No information available.

Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

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linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

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Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

cis-4-(Isopropyl)cyclohexanemethanol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

citral:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

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Test Type: In vitro Mammalian Chromosome Aberration Test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD 473

Result: negative

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Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Geranyl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Eugenol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Method: OECD 473
Result: positive
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test
Method: OECD 476
Result: positive
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Method: OECD 474
Result: negative
GLP: No information available.

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test

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Species: Mouse (male)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Pentadecan-15-olide:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Neryl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In Vitro Mammalian Cell Micronucleus Test
Test system: human lymphoblastoid cells
Metabolic activation: with and without metabolic activation
Method: OECD 487
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 490
Result: negative
GLP: yes

(E)-1-(2,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test

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Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Linalyl acetate:

Species : Rat, male and female
NOAEL : 160 mg/kg
Application Route : Oral
Exposure time : 28 d
Number of exposures : daily
Method : OECD Test Guideline 407
GLP : yes

Species : Rat, male and female
NOAEL : 250 mg/kg
Application Route : Dermal
Exposure time : 91 d
Number of exposures : daily
Method : OECD Test Guideline 411
GLP : yes

Neryl acetate:

Species : Rat, male and female
NOAEL : 440 mg/kg
Application Route : Oral
Number of exposures : daily
Method : OECD 422
GLP : yes

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Species : Rat, male and female
NOAEL : 125 mg/kg bw/day
Application Route : Oral
Method : OECD 422
GLP : yes

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Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-Phenylethanol:

Toxicity to fish : LC50 (Golden orfe (*Leuciscus idus*)): > 215 - < 464 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (Part 15)
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 287 mg/l
End point: Swimming behavior
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: no

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 1,3 g/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412
GLP: no

EC10 (*Desmodesmus subspicatus* (green algae)): 0,43 g/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412
GLP: no

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Toxicity to microorganisms : EC50 (Activated sludge): > 100 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes

NOEC (Activated sludge): 100 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes

3,7-Dimethyloctan-1-ol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 3,6 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

Citronellol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 14,66 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (Part 15)
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 17,48 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: 79/831/ECC
GLP: no

EC50 (Daphnia magna (Water flea)): 17,48 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: 79/831/ECC
GLP: no

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Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 10.000 mg/l
End point: Respiration inhibition

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Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 27)
GLP: no

Linalyl acetate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 11 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 59 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 54,3 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC20 (Activated sludge): > 1.000 mg/l
End point: Respiration inhibition
Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no
Method: ISO 8192
GLP: no

Nerol:

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Toxicity to fish

: LC50 (Danio rerio (zebra fish)): 20,3 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes

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Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 32,4 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 9,54 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): 241 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes

Geraniol:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): ca. 22 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 10,8 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 13,1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201

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GLP: yes
Remarks: Information given is based on data obtained from similar substances.

EC10 (Desmodesmus subspicatus (green algae)): 3,77 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to microorganisms : EC50 (Activated sludge): 144 mg/l
Exposure time: 96 h
Method: ISO 8192
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27,8 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 59 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC10 (Desmodesmus subspicatus (green algae)): 54,3 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC50 (Activated sludge): > 100 mg/l

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End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: yes
Method: OECD 209
GLP: yes

cis-4-(Isopropyl)cyclohexanemethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,2 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 10 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC10 (Pseudokirchneriella subcapitata (green algae)): 5,2 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): 190 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: yes

citral:

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Toxicity to fish

: LC50 (Leuciscus idus (Golden orfe)): 6,78 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test

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Method: DIN 38412
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 6,8 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: no

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 103,8 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC10 (*Desmodesmus subspicatus* (green algae)): 3 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC50 (Activated sludge): ca. 160 mg/l
Exposure time: 0,5 h
Test Type: static test
Method: OECD 209
GLP: no

Geranyl acetate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* Straus): 14,1 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 3,72 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (*Desmodesmus subspicatus* (green algae)): 0,585 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test

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Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC20 (Activated sludge): ca. 800 mg/l
End point: Respiration inhibition
Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no
Method: ISO 8192
GLP: no

Eugenol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 13 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,13 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 24 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Toxicity to fish : LC50 (Zebrafish (Brachydanio rerio)): 77,6 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 33,2 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

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Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 79,7 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test

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Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC10 (Pseudokirchneriella subcapitata (green algae)): 38,1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): > 1.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes

Pentadecan-15-olide:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,17 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: No effect in the area of water solubility of the substance

Toxicity to algae/aquatic plants : ErC10 (Desmodesmus subspicatus (green algae)): 0,421 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.3.
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): > 10.000 mg/l
End point: Respiration inhibition
Exposure time: 30 min
Test Type: Respiration inhibition
Analytical monitoring: no
Method: OECD 209
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,068 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test

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Analytical monitoring: yes
Method: OECD 211
GLP: yes

Neryl acetate:

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna Straus): 9,06 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to microorganisms : (Activated sludge): \geq 1.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Analytical monitoring: no
Method: OECD 209
GLP: yes

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4,3 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 22,73 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 15,5 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

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EC10 (*Pseudokirchneriella subcapitata* (green algae)): 3,88 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

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(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Toxicity to fish : LC50 (Fish): 1,09 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to microorganisms : EC50 (Bacteria): 275 mg/l
Exposure time: 3 h
Method: OECD 209

NOEC (Bacteria): 32 mg/l
Exposure time: 3 h
Method: OECD 209

(2-Methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (Fathead minnow (*Pimephales promelas*)): > 10.000 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 1.919 mg/l

Toxicity to algae/aquatic plants : EC50 (*Scenedesmus capricornutum* (fresh water algae)): > 969 mg/l
Exposure time: 96 h

12.2 Persistence and degradability

Components:

2-Phenylethanol:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO₂):
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD 301B
GLP: no

3,7-Dimethyloctan-1-ol:

Biodegradability : Test Type: CO₂ Evolution Test
Inoculum: activated sludge, non-adapted
Result: not readily biodegradable (only 10 day window failed)
Biodegradation: 70 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

Citronellol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.

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Biodegradation: 80 - 90 %

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Exposure time: 28 d
GLP: no

Linalyl acetate:

Biodegradability

: Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD 301F
GLP: no

Nerol:

Biodegradability

: Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 91 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Geraniol:

Biodegradability

: Test Type: Closed bottle test, OECD 301-D, (BOD[28]/COD):
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 86 %
Exposure time: 28 d
Method: OECD 301
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Biodegradability

: Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 64,2 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

cis-4-(Isopropyl)cyclohexanemethanol:

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Biodegradability : Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 65 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

citral:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Geranyl acetate:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 91 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Stability in water : Degradation half life: 1.539 h (25 °C)
pH: 7
Method: OECD Test Guideline 111

Eugenol:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Pentadecan-15-olide:

Biodegradability : Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

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Neryl acetate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Biodegradability : Test Type: Manometric respiration test
Result: Inherently biodegradable.
Biodegradation: 61 %
Exposure time: 70 d
Method: OECD 301F

(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Biodegradability : Test Type: Manometric respiration test
Result: not readily biodegradable (only 10 day window failed)
Biodegradation: 65 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

(2-Methoxymethylethoxy)propanol:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 96 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

12.3 Bioaccumulative potential

Components:

2-Phenylethanol:

Partition coefficient: n-octanol/water : log Pow: 1,3 (20 °C)
pH: 7
Method: OECD 117
GLP: yes

3,7-Dimethyloctan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 3,9 (35 °C)
Method: OECD 117

Citronellol:

Partition coefficient: n-octanol/water : log Pow: 3,41 (25 °C)
GLP: no

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Linalyl acetate:

Partition coefficient: n-octanol/water : log Pow: 3,9 (25 °C)
Method: OECD Test Guideline 107
GLP: yes

Nerol:

Partition coefficient: n-octanol/water : log Pow: ca. 2,76 (30 °C)
pH: 6,5
Method: OECD 117
GLP: No information available.

Geraniol:

Partition coefficient: n-octanol/water : log Pow: 2,6 (25 °C)
Method: OECD 117
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Partition coefficient: n-octanol/water : log Pow: 2,84 (25 °C)
Method: OECD Test Guideline 107
GLP: no

cis-4-(Isopropyl)cyclohexanemethanol:

Partition coefficient: n-octanol/water : log Pow: 3,48
Remarks: calculated

citral:

Partition coefficient: n-octanol/water : log Pow: 2,76 (25 °C)
Method: OECD Test Guideline 107
GLP: no

Geranyl acetate:

Partition coefficient: n-octanol/water : log Pow: 4,04
Method: OECD 117
GLP: No information available.

Eugenol:

Partition coefficient: n-octanol/water : log Pow: 1,83 (30 °C)
pH: 5,5
Method: OECD 117
GLP: no

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Partition coefficient: n-octanol/water : log Pow: 3,3 (23 °C)
pH: 6,5
Method: OECD 117
GLP: yes

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Pentadecan-15-olide:

Partition coefficient: n-octanol/water : log Pow: 5,79 (25 °C)
Method: OECD Test Guideline 123
GLP: yes

Neryl acetate:

Partition coefficient: n-octanol/water : log Pow: 3,98 (37 °C)
pH: 7,2
Method: OECD 117
GLP: no

2,3-Dihydro-2,2,6-trimethylbenzaldehyde:

Partition coefficient: n-octanol/water : Pow: 2,7 (35 °C)
pH: 7
Method: OECD 117
GLP: yes

(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Bioaccumulation : Bioconcentration factor (BCF): 14 - 56
Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water : log Pow: 3,4 (25 °C)
Method: OECD Test Guideline 123

(2-Methoxymethylethoxy)propanol:

Partition coefficient: n-octanol/water : log Pow: 1,01

12.4 Mobility in soil

Components:

2-Phenylethanol:

Distribution among environmental compartments : Adsorption/Soil
Medium: Soil
log Koc: 1,5
Method: OECD 121

Geranyl acetate:

Distribution among environmental compartments : Koc: 1151, log Koc: 3,06
Remarks: calculated

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Distribution among environmental compartments : Koc: 652,7, log Koc: 2,81
Remarks: calculated

Pentadecan-15-olide:

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Distribution among environmental compartments : log K_{oc}: 4,65
Method: OECD 121

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

citral:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Pentadecan-15-olide:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Components:

3,7-Dimethyloctan-1-ol:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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Toxic to aquatic life with long lasting effects.

cis-4-(Isopropyl)cyclohexanemethanol:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

citral:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Geranyl acetate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Pentadecan-15-olide:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

Neryl acetate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
- Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Cymbopogon martini, ext. (Number on list 3)
Nerol (Number on list 3)
Geraniol (Number on list 3)
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol (Number on list 3)
Citronellol (Number on list 3)
Geranyl acetate (Number on list 3)
Citronellyl acetate (Number on list 3)
3,7-Dimethyloctan-1-ol (Number on list 3)
Neryl acetate (Number on list 3)
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (Number on list 3)
Linalyl acetate (Number on list 3)
2-Phenylethanol (Number on list 3)
Terpineol (Number on list 3)
Tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran (Number

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on list 3)
cis-4-
(Isopropyl)cyclohexanemethanol
(Number on list 3)
citral (Number on list 3)
Cyperus scariosus, ext. (Number on
list 3)
Cinnamomum zeylanicum, ext.
(Number on list 3)
Phenethyl acetate (Number on list 3)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
portion Class 1: 0,23 %

Carcinogenic substances:
portion Class 3: < 0,01 %

Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 10,55 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

BLACK ROSE & OUD

Version 3.0 Revision Date: 04.09.2022 SDS Number: 906953 Date of last issue: 05.08.2022
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SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
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.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Repr. : Reproductive toxicity
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
91/322/EEC : Europe. Commission Directive 91/322/EEC on establishing indicative limit values
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DFG : Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
EU SCOEL : EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended
91/322/EEC / TWA : Time weighted average
DE TRGS 900 / AGW : Exposure limit(s):
DFG / MAK : Maximum allowable concentration:
EU SCOEL / TWA : Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-

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fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method

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This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact customerservice@candlesupply.com.au