

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Duftöl 10ml Wildkirsche =< 125 mL

Further trade names

This MSDS covers the following products:

- 91186 Duftöl 10ml Wildkirsche
- 50158 Duftöl 10ml Wildkirsche

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Perfumes, fragrances

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Promed GmbH
Cosmetic Products,
Lindenweg 11, 82490
Farchant, Germany

Responsible Department: Dr. Gans-Eichler
Chemieberatung GmbH
Raesfeldstr. 22
D-48149 Münster

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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

ethyl 2,3-epoxy-3-phenylbutyrate
vanillin
linalool
benzyl cinnamate
(R)-p-mentha-1,8-diene, d-limonene
eugenol
Caryophyllene
benzylsalicylate
Allyl 3-cyclohexylpropionate
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
Methyl cinnamate
geranyl acetate
Neryl Acetate
citronellol
geraniol

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3-p-Cumenyl-2-methylpropionaldehyde
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container to local/regional/national/international regulations.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate	1 - < 5 %
	201-061-8	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411	
121-33-5	vanillin	1 - < 5 %
	204-465-2	
	01-2119516040-60	
	Eye Irrit. 2, Skin Sens. 1; H319 H317	
88-41-5	2-tert-Butylcyclohexyl acetate	1 - < 5 %
	201-828-7	
	01-2119970713-33	
	Aquatic Chronic 2; H411	
134-20-3	Methylantranilate	1 - < 5 %
	205-132-4	
	Eye Irrit. 2; H319	
78-70-6	linalool	1 - < 5 %
	201-134-4	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317	
100-52-7	benzaldehyde	1 - < 5 %
	202-860-4	
	605-012-00-5	
	01-2119455540-44	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H332 H302 H319 H335	
104-67-6	undecan-4-olide	1 - < 5 %
	203-225-4	
	01-2119959333-34	
	Aquatic Chronic 3; H412	

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103-41-3	benzyl cinnamate			1 - < 5 %
	203-109-3			
	Skin Sens. 1, Aquatic Chronic 2; H317 H411			
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene			1 - < 5 %
	227-813-5	601-029-00-7		
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H304 H400 H410			
97-53-0	eugenol			< 1 %
	202-589-1			
	Eye Irrit. 2, Skin Sens. 1B; H319 H317			
87-44-5	Caryophyllene			< 1 %
	201-746-1			
	Skin Sens. 1B, Asp. Tox. 1; H317 H304			
142-19-8	Allyl heptanoate			< 1 %
	205-527-1		01-2119488961-23	
	Acute Tox. 3, Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 3; H311 H301 H400 H412			
118-58-1	benzylsalicylate			< 1 %
	204-262-9		01-2119969442-31	
	Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H319 H317 H412			
120-51-4	benzyl benzoate			< 1 %
	204-402-9	607-085-00-9	01-2119976371-33	
	Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 2; H302 H400 H411			
2705-87-5	Allyl 3-cyclohexylpropionate			< 1 %
	220-292-5		01-2119976355-27	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H332 H312 H302 H317 H400 H410			
127-51-5	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			< 1 %
	204-846-3			
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H315 H317 H411			
103-26-4	Methyl cinnamate			< 1 %
	203-093-8		01-2119979458-16	
	Skin Sens. 1B; H317			
105-87-3	geranyl acetate			< 1 %
	203-341-5			
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H315 H317 H412			
141-12-8	Neryl Acetate			< 1 %
	205-459-2			
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H315 H317 H412			
106-22-9	citronellol			< 1 %
	203-375-0			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
106-24-1	geraniol			< 1 %
	203-377-1		01-2119552430-49	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317			
103-95-7	3-p-Cumenyl-2-methylpropionaldehyde			< 1 %

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	203-161-7		
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H315 H317 H412		
57378-68-4	1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		< 0.1 %
	260-709-8		
	Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H317 H400 H410		

Full text of H and EUH statements: see section 16.

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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See protective measures under point 7 and 8.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

Protect against: Light. UV-radiation/sunlight. heat. moisture.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
104-67-6	undecan-4-olide			
Worker DNEL, long-term		inhalation	systemic	19 mg/m ³
Worker DNEL, long-term		dermal	systemic	5,38 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4,68 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2,7 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,7 mg/kg bw/day
142-19-8	Allyl heptanoate			
Worker DNEL, long-term		inhalation	systemic	2,97 mg/m ³

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Worker DNEL, long-term	dermal	systemic	0,84 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,73 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,42 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,42 mg/kg bw/day
118-58-1	benzylsalicylate		
Worker DNEL, long-term	inhalation	systemic	3.17 mg/m ³
Worker DNEL, long-term	dermal	systemic	0.9 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0.78 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0.45 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0.45 mg/kg bw/day
120-51-4	benzyl benzoate		
Consumer DNEL, long-term	oral	systemic	0,4 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	78 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	5,1 mg/m ³
Worker DNEL, acute	inhalation	systemic	102 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	1,25 mg/m ³
Consumer DNEL, acute	inhalation	systemic	25 mg/m ³
Worker DNEL, long-term	dermal	systemic	2,6 mg/kg bw/day
106-24-1	geraniol		
Worker DNEL, long-term	inhalation	systemic	161,6 mg/m ³
Worker DNEL, long-term	dermal	systemic	12,5 mg/kg bw/day
Worker DNEL, long-term	dermal	local	11,8 mg/cm ²
Consumer DNEL, long-term	oral	systemic	13,75 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	47,8 mg/m ³
Consumer DNEL, long-term	dermal	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	11,8 mg/cm ²

PNEC values

CAS No	Substance	Value
	Environmental compartment	Value
88-41-5	2-tert-Butylcyclohexyl acetate	
	Freshwater	0.001 mg/l
	Marine water	0.001 mg/l
	Freshwater sediment	1.5 mg/kg
	Marine sediment	0.15 mg/kg
	Micro-organisms in sewage treatment plants (STP)	10 mg/l
	Soil	0.293 mg/kg
104-67-6	undecan-4-olide	
	Freshwater	0,01752 mg/l
	Freshwater (intermittent releases)	0,0585 mg/l

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Marine water	0,00175 mg/l
Freshwater sediment	1,882 mg/kg
Marine sediment	0,188 mg/kg
Secondary poisoning	66,7 mg/kg
Micro-organisms in sewage treatment plants (STP)	80 mg/l
Soil	0,366 mg/kg
142-19-8	Allyl heptanoate
Freshwater	0,00012 mg/l
Freshwater (intermittent releases)	0,0012 mg/l
Marine water	0,000012 mg/l
Freshwater sediment	0,012 mg/kg
Marine sediment	0,001 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,002 mg/kg
118-58-1	benzylsalicylate
Freshwater	0.001 mg/l
Freshwater (intermittent releases)	0.01 mg/l
Marine water	0.0001 mg/l
Freshwater sediment	0.583 mg/kg
Marine sediment	0.0583 mg/kg
Secondary poisoning	80 mg/l
Micro-organisms in sewage treatment plants (STP)	10 mg/kg
Soil	1.41 mg/kg
120-51-4	benzyl benzoate
Freshwater	0,0168 mg/l
Marine water	0,00168 mg/l
Freshwater sediment	10,66 mg/kg
Marine sediment	1,07 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	2,12 mg/kg
106-24-1	geraniol
Freshwater	0.011 mg/l
Freshwater (intermittent releases)	0,108 mg/l
Marine water	0.0011 mg/l
Freshwater sediment	0.115 mg/kg
Marine sediment	0.0115 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,7 mg/l
Soil	0.017 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

**Appropriate engineering controls**

Professional:
Provide adequate ventilation.

Protective and hygiene measures

Professional:
When using do not eat, drink or smoke.

Eye/face protection

Professional:
Wear safety glasses; chemical goggles (if splashing is possible). DIN EN 166

Hand protection

Professional:
In case of prolonged or frequently repeated skin contact:
Wear suitable gloves.
Suitable material:
FKM (fluororubber). - Thickness of glove material: 0,4 mm
Breakthrough time \geq 8 h
Butyl rubber. - Thickness of glove material: 0,5 mm
Breakthrough time \geq 8 h
CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm
Breakthrough time \geq 8 h
NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm
Breakthrough time \geq 8 h
PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm
Breakthrough time \geq 8 h
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Professional:
Suitable protective clothing: Lab apron.
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

Professional:
With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at:
Generation/formation of aerosols
exceeding exposure limit values
Insufficient ventilation.
Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	yellow - yellow-orange	
Odour:	characteristic	
pH-Value:		not determined

Changes in the physical state

Melting point:		not determined
Initial boiling point and boiling range:		not determined
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
Flash point:		92 °C
Sustaining combustion:		Not sustaining combustion

Explosive properties

none

Lower explosion limits:		not determined
Upper explosion limits:		not determined
Ignition temperature:		not determined

Auto-ignition temperature

Gas:

not determined

Decomposition temperature:		not determined
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Oxidizing properties

none

Vapour pressure: (at 50 °C)		< 10 hPa
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Density (at 20 °C):		1,0190 - 1,0290 g/cm³
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Water solubility:		not determined
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Solubility in other solvents

not determined

Partition coefficient:		not determined
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Viscosity / dynamic:		not determined
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Viscosity / kinematic:		not determined
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Flow time:		not determined
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Vapour density:		not determined
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Evaporation rate:		not determined
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Solvent separation test:		not determined
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Solvent content:		not determined
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9.2. Other information

Solid content:		not determined
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SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate				
	oral	LD50 mg/kg 5470	Rat.	ECHA Dossier	
	dermal	LD50 mg/kg >2000	Rat.	ECHA Dossier	
121-33-5	vanillin				
	oral	LD50 mg/kg >2000	Rat	ECHA Dossier	
	dermal	LD50 mg/kg >2000	Rat	ECHA Dossier	
88-41-5	2-tert-Butylcyclohexyl acetate				
	oral	LD50 mg/kg 4600	Rat	ECHA Dossier	OECD TG 401
	dermal	LD50 mg/kg >5000	Rabbit	ECHA Dossier	OECD TG 403
134-20-3	Methylantranilate				
	oral	LD50 mg/kg 2910	Rat.	RTECS	
	dermal	LD50 mg/kg >5000	Rabbit.	RTECS	
78-70-6	linalool				
	oral	LD50 mg/kg 2200	Mouse.	ECHA Dossier	
	dermal	LD50 mg/kg >5000	Rabbit	ECHA Dossier	
100-52-7	benzaldehyde				

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	oral	LD50 mg/kg	1430	Rat	ECHA Dossier	
	inhalative vapour	ATE	11 mg/l			
	inhalative (4 h) aerosol	LC50	1-5 mg/l	Rat	ECHA Dossier	
104-67-6	undecan-4-olide					
	oral	LD50 mg/kg	> 2000	Rat	Study report (2002)	other: Japanese guideline for medicine
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1999)	OECD Guideline 402
97-53-0	eugenol					
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier	
	inhalative (4 h) vapour	LC50	5 mg/l	Rat	ECHA Dossier	
142-19-8	Allyl heptanoate					
	oral	LD50 mg/kg	218	Rat	Publication (1964)	OECD Guideline 401
	dermal	LD50 mg/kg	810	Rabbit	Study report (1974)	OECD Guideline 402
118-58-1	benzylsalicylate					
	oral	LD50 mg/kg	(891)	Rat		
120-51-4	benzyl benzoate					
	oral	LD50 mg/kg	[>2000]	Rat.	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rabbit.	ECHA Dossier	
2705-87-5	Allyl 3-cyclohexylpropionate					
	oral	ATE mg/kg	500			
	dermal	LD50 mg/kg	1600	Rabbit.	ECHA Dossier	
	inhalative vapour	ATE	11 mg/l			
	inhalative aerosol	ATE	1,5 mg/l			
127-51-5	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one					
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA Dossier	
105-87-3	geranyl acetate					
	oral	LD50 mg/kg	6330	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	5460	Rabbit	ECHA Dossier	
106-22-9	citronellol					
	oral	LD50 mg/kg	3450	Rat.	ECHA Dossier	
	dermal	LD50 mg/kg	2650	Rabbit	ECHA Dossier	
106-24-1	geraniol					
	oral	LD50 mg/kg	3600	Rat	ECHA Dossier	

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	dermal	LD50 mg/kg	>5000	Rabbit.	ECHA Dossier	
103-95-7	3-p-Cumenyl-2-methylpropionaldehyde					
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA	
57378-68-4	1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one					
	oral	ATE mg/kg	500			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (ethyl 2,3-epoxy-3-phenylbutyrate; vanillin; linalool; benzyl cinnamate; (R)-p-mentha-1,8-diene, d-limonene; eugenol; Caryophyllene; benzylsalicylate; Allyl 3-cyclohexylpropionate; 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one; Methyl cinnamate; geranyl acetate; Neryl Acetate; citronellol; geraniol; 3-p-Cumenyl-2-methylpropionaldehyde; 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available.

SECTION 12: Ecological information
12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate					
	Acute fish toxicity	LC50 mg/l	(4,2)	96 h	Oncorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50	(42) mg/l	96 h	Pseudokirchneriella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50	(52) mg/l	48 h	Daphnia magna	ECHA Dossier
121-33-5	vanillin					
	Acute fish toxicity	LC50	123 mg/l	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier
	Acute algae toxicity	ErC50	120 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l	36,79	48 h	Daphnia magna	ECHA Dossier
	Crustacea toxicity	NOEC	10 mg/l	21 d	Daphnia magna	ECHA Dossier
88-41-5	2-tert-Butylcyclohexyl acetate					
	Acute fish toxicity	LC50	5,6 mg/l	96 h	Danio rerio	ECHA Dossier
	Acute algae toxicity	ErC50	4.2 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier

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	Acute crustacea toxicity	EC50	17 mg/l	48 h	Daphnia magna	ECHA Dossier	
134-20-3	Methylantranilate						
	Acute fish toxicity	LC50 mg/l	9,12	96 h		GESTIS	
	Acute crustacea toxicity	EC50 mg/l	18,2	48 h		GESTIS	
78-70-6	linalool						
	Acute fish toxicity	LC50 mg/l	27,8	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	88,3	96 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50	59 mg/l	48 h	Daphnia magna	ECHA Dossier	
100-52-7	benzaldehyde						
	Acute fish toxicity	LC50 mg/l	(1,07)	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	50 (24h)	48 h	Daphnia magna	ECHA Dossier	
104-67-6	undecan-4-olide						
	Acute fish toxicity	LC50 mg/l	ca. 21,5	96 h	Leuciscus idus	Study report (1991)	other: German standard guideline DIN 384
	Acute algae toxicity	ErC50 mg/l	63,5	72 h	Pseudokirchneriella subcapitata	Study report (2012)	OECD Guideline 201
	Acute crustacea toxicity	EC50	4 mg/l	48 h	Daphnia magna	Study report (1999)	EU Method C.2
	Algae toxicity	NOEC mg/l	0,779	3 d		ECHA Dossier	
	Crustacea toxicity	NOEC mg/l	0,138	21 d	Daphnia magna	Study report (2015)	OECD Guideline 211
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene						
	Acute fish toxicity	LC50 mg/l	(0,7)	96 h	Pimephales promelas	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	(0,36)	48 h	Daphnia magna	ECHA Dossier	
97-53-0	eugenol						
	Acute fish toxicity	LC50	13 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50	24 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	1,13	48 h	Daphnia magna	ECHA Dossier	
	Fish toxicity	NOEC	10 mg/l	4 d	Danio rerio	ECHA Dossier	
	Algae toxicity	NOEC	23 mg/l	3 d	Desmodesmus subspicatus	ECHA Dossier	
142-19-8	Allyl heptanoate						
	Acute fish toxicity	LC50 mg/l	0,117	96 h	Brachydanio rerio (zebra-fish)	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	> 4,6	72 h	Desmodesmus subspicatus	Study report (2011)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,89	48 h	Daphnia magna	Study report (1999)	OECD Guideline 202
118-58-1	benzylsalicylate						

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	Acute fish toxicity	LC50 mg/l	(1,03)	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	(1,29)	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	(1,16)	48 h	Daphnia magna	ECHA Dossier	
120-51-4	benzyl benzoate						
	Acute fish toxicity	LC50 mg/l	(2,32)	96 h	Brachydanio rerio (zebra-fish)	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	(0,475)	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	(4,26)	48 h	Daphnia magna	ECHA Dossier	
2705-87-5	Allyl 3-cyclohexylpropionate						
	Acute fish toxicity	LC50 mg/l	0,13	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier	
105-87-3	geranyl acetate						
	Acute algae toxicity	ErC50 mg/l	(3,72)	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	(14,1)	48 h	Daphnia magna	ECHA Dossier	
106-22-9	citronellol						
	Acute fish toxicity	LC50 mg/l	14,66	96 h	Leuciscus idus (golden orfe)	ECHA Dossier	
	Acute algae toxicity	ErC50	2,4 mg/l	72 h	Scenedesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	17,5	48 h	Daphnia magna	ECHA Dossier	
106-24-1	geraniol						
	Acute fish toxicity	LC50	22 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	13,1	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	10,3	48 h	Daphnia magna	ECHA Dossier	
103-95-7	3-p-Cumenyl-2-methylpropionaldehyde						
	Acute algae toxicity	ErC50 mg/l	(2,7)	96 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	(1,4)	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity		(100 mg/l)	3 h	Activated sludge	ECHA Dossier	

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	53%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
121-33-5	vanillin			
	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F	97-100%	14	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
88-41-5	2-tert-Butylcyclohexyl acetate			

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	OECD Guideline 301 F	43%		ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
78-70-6	linalool			
	OECD 301D / EEC 92/69 annex V, C.4-E	64,2%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
104-67-6	undecan-4-olide			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	82%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene			
	OECD 301D / EEC 92/69 annex V, C.4-E	80 %	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
97-53-0	eugenol			
	EU Method C.4-E	82%	28	ECHA
	Readily biodegradable (according to OECD criteria).			
142-19-8	Allyl heptanoate			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	81%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
118-58-1	benzylsalicylate			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	93%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
120-51-4	benzyl benzoate			
	EU Method C.4-D	94%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
2705-87-5	Allyl 3-cyclohexylpropionate			
	OECD 301D / EEC 92/69 annex V, C.4-E	86 %	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
127-51-5	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	61,8%	28	ECHA Dossier
	Evidence for inherent biodegradability.			
105-87-3	geranyl acetate			
	EEC Directive 79-831, Annex V, Part C, 5.2	>70%	28	ECHA Dossier
	Product is biodegradable.			
106-22-9	citronellol			
	EU Directive 79/831/EEC Annex V, part C	90 %	28	ECHA Dossier
	Product is biodegradable.			
106-24-1	geraniol			
	OECD Guideline 301 A (new version)	90%	3	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
103-95-7	3-p-Cumenyl-2-methylpropionaldehyde			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	65,5%	28	ECHA Dossier
	Product is biodegradable.			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate	3,0
134-20-3	Methylantranilate	1,88
78-70-6	linalool	2,84
100-52-7	benzaldehyde	1,48
104-67-6	undecan-4-olide	3,6
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	4,23
97-53-0	eugenol	1,83
142-19-8	Allyl heptanoate	3,97
120-51-4	benzyl benzoate	3,97
127-51-5	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	4,7
105-87-3	geranyl acetate	4,04
106-22-9	citronellol	3,41
106-24-1	geraniol	2,6
103-95-7	3-p-Cumenyl-2-methylpropionaldehyde	3,4

BCF

CAS No	Chemical name	BCF	Species	Source
104-67-6	undecan-4-olide	110		QSAR (2010)
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	1022	QSAR	ECHA
142-19-8	Allyl heptanoate	193,2	Fish	U.S. Environmental P

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

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150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
 Water contaminating class (D): 3 - highly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

- vanillin
- 2-tert-Butylcyclohexyl acetate
- undecan-4-olide

SECTION 16: Other information

Changes

Rev. 1.0; Initial release: 09.04.2018

Abbreviations and acronyms

- ADR: Accord européen sur le transport des marchandises dangereuses par Route
- CAS Chemical Abstracts Service
- DNEL: Derived No Effect Level
- IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
- LOAEL: Lowest observed adverse effect level
- LOAEC: Lowest observed adverse effect concentration
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- NOAEL: No observed adverse effect level
- NOAEC: No observed adverse effect level
- NTP: National Toxicology Program
- N/A: not applicable
- OSHA: Occupational Safety and Health Administration
- PNEC: predicted no effect concentration
- PBT: Persistent bioaccumulative toxic
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- SARA: Superfund Amendments and Reauthorization Act
- SVHC: substance of very high concern
- TRGS Technische Regeln fuerGefahrstoffe
- TSCA: Toxic Substances Control Act
- VOC: Volatile Organic Compounds
- VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
- WGK: Wassergefaehrdungsklasse

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)