

Safety Data Sheet

CG04265PV CHRYSANTHEME

 Version number: V 3.0
 Replaces version of: 07.03.2022 (V 2)

Revision: 26.03.2024

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

1.1 Product identifier

Trade name	CHRYSANTHEME
Registration number (REACH)	not relevant (mixture)
Unique formula identifier	1QWC-K0VG-100Y-634P
Article number	CG04265PV

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

Relevant identified uses	Professional use
Uses advised against	The product is not intended for consumer use.

1.3 Details of the supplier of the safety data sheet

Johann Voegele KG
 Bahnhofstraße 143
 D-74348 Lauffen a.N.
 Germany

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 Telefax: +49 7133 9802 - 60
 e-mail: info@voegele-ingredients.de
 Website: www.voegele-ingredients.de

e-mail (competent person)	MSDS@voegele-ingredients.de (Regulatory Affairs)
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1.4 Emergency telephone number

Emergency information service	+49 (0) 700 24 112 112 (JVC)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

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

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling

- Signal word	warning
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- Pictograms	
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- Hazard statements

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

- Precautionary statements

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

- Hazardous ingredients for labelling

d-Limonene, Linalool, Amberonone, Geraniol, Citronellol, Allyl 3-cyclohexylpropionate, 3,7-dimethylnona-1,6-dien-3-ol, HEXYL CINNAMIC ALDEHYDE

2.3 Other hazards

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
d-Limonene	CAS No 5989-27-5 68606-81-5	5 – < 7.5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	   
Linalool	CAS No 78-70-6	3 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
2,6-dimethyloct-7-en-2-ol	CAS No 18479-58-8	3 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H336	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Allyl Heptanoate	CAS No 142-19-8	1 – < 3	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	 
OTBCH Acetate	CAS No 20298-69-5	1 – < 3	Aquatic Chronic 2 / H411	
Verdyl propionate	CAS No 68912-13-0	1 – < 3	Aquatic Chronic 2 / H411	
Amberonne	CAS No 54464-57-2	1 – < 3	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Aquatic Chronic 2 / H411	 
Geraniol	CAS No 106-24-1	1 – < 3	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317	 
HEXYL CINNAMIC ALDEHYDE	CAS No 101-86-0	< 1	Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	 
3,7-dimethylnona-1,6-dien-3-ol	CAS No 10339-55-6	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Diethyl phthalate	CAS No 84-66-2	< 1		
Allyl 3-cyclohexylpropionate	CAS No 2705-87-5	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Skin Sens. 1B / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	 
Tonalid	CAS No 1506-02-1	< 1	Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	 
Diphenyloxide	CAS No 101-84-8	< 1	Eye Irrit. 2 / H319 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	 
Hexahydro-Hexamethylcyclopentabenzopyran (HHCB)	CAS No 1222-05-5	< 1	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
Citronellol	CAS No 106-22-9	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	

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Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Allyl Heptanoate	-	-	218 mg/kg 810 mg/kg	oral dermal
Allyl 3-cyclohexylpropionate	-	-	500 mg/kg 1,600 mg/kg	oral dermal
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	-	-	920 mg/kg	oral

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

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

Following inhalation

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

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5.3 Advice for firefighters

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

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety.

For emergency responders

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Recommendations

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

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

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

There is no additional information.

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials" (Section 10).

7.3 Specific end use(s)

See section 16 for a general overview.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
EU	diphenyl ether	101-84-8	IOEL V	1	7	2	14				2017/164/EU

Notation

Ceiling-C

STEL

TWA

ceiling value is a limit value above which exposure should not occur
 short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
 time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
 time-weighted average (unless otherwise specified)

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
d-Limonene	5989-27-5 68606-81-5	DNEL	66.7 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
d-Limonene	5989-27-5 68606-81-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	2.8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
2,6-dimethyloct-7-en-2-ol	18479-58-8	DNEL	24.7 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2,6-dimethyloct-7-en-2-ol	18479-58-8	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Allyl Heptanoate	142-19-8	DNEL	2.97 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl Heptanoate	142-19-8	DNEL	0.84 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Amberonne	54464-57-2	DNEL	30 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Amberonne	54464-57-2	DNEL	28.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Amberonne	54464-57-2	DNEL	648 µg/cm²	human, dermal	worker (industry)	chronic - local effects

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Relevant DNELs of components						
Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Geraniol	106-24-1	DNEL	161.6 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	12.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11,800 µg/ cm ²	human, dermal	worker (industry)	chronic - local ef- fects
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	DNEL	3 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	DNEL	18 mg/m ³	human, inhalat- ory	worker (industry)	acute - systemic effects
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	DNEL	2.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	DNEL	5.5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
HEXYL CINNAMIC ALDEHYDE	101-86-0	DNEL	0.078 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
HEXYL CINNAMIC ALDEHYDE	101-86-0	DNEL	6.28 mg/ m ³	human, inhalat- ory	worker (industry)	acute - local ef- fects
HEXYL CINNAMIC ALDEHYDE	101-86-0	DNEL	18.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
HEXYL CINNAMIC ALDEHYDE	101-86-0	DNEL	525 µg/ cm ²	human, dermal	worker (industry)	chronic - local ef- fects
HEXYL CINNAMIC ALDEHYDE	101-86-0	DNEL	525 µg/ cm ²	human, dermal	worker (industry)	acute - local ef- fects
Diethyl phthalate	84-66-2	DNEL	10.56 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Diethyl phthalate	84-66-2	DNEL	15 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Allyl 3-cyclohexyl- propionate	2705-87-5	DNEL	21.13 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Allyl 3-cyclohexyl- propionate	2705-87-5	DNEL	5.99 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Allyl 3-cyclohexyl- propionate	2705-87-5	DNEL	17.97 mg/ kg bw/day	human, dermal	worker (industry)	acute - systemic effects
7-Acetyl-1,1,3,4,4,6- hexamethyltetralin	1506-02-1	DNEL	1.8 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
7-Acetyl-1,1,3,4,4,6- hexamethyltetralin	1506-02-1	DNEL	0.175 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
7-Acetyl-1,1,3,4,4,6- hexamethyltetralin	1506-02-1	DNEL	0.525 mg/ m ³	human, inhalat- ory	worker (industry)	acute - systemic effects
7-Acetyl-1,1,3,4,4,6- hexamethyltetralin	1506-02-1	DNEL	0.61 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Diphenyloxide	101-84-8	DNEL	59 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects

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Relevant DNELs of components

Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Diphenyloxide	101-84-8	DNEL	7 mg/m ³	human, inhalat-ory	worker (industry)	chronic - local ef-fects
Diphenyloxide	101-84-8	DNEL	14 mg/m ³	human, inhalat-ory	worker (industry)	acute - local ef-fects
Diphenyloxide	101-84-8	DNEL	25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexahydro-Hexa-methylcyclo-pentabenzopyran (HHCB)	1222-05-5	DNEL	22 mg/m ³	human, inhalat-ory	worker (industry)	chronic - systemic effects
Hexahydro-Hexa-methylcyclo-pentabenzopyran (HHCB)	1222-05-5	DNEL	60 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	161.6 mg/ m ³	human, inhalat-ory	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalat-ory	worker (industry)	chronic - local ef-fects
Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalat-ory	worker (industry)	acute - local ef-fects
Citronellol	106-22-9	DNEL	327.4 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	2,950 µg/ cm ²	human, dermal	worker (industry)	acute - local ef-fects

Relevant PNECs of components

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
d-Limonene	5989-27-5 68606-81-5	PNEC	14 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	1.4 µg/l	aquatic organ-isms	marine water	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	1.8 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	3.85 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	0.385 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
d-Limonene	5989-27-5 68606-81-5	PNEC	0.763 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organ-isms	marine water	short-term (single instance)

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Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	10 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 mg/kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
2,6-dimethyloct-7- en-2-ol	18479-58-8	PNEC	27.8 µg/l	aquatic organ- isms	freshwater	short-term (single instance)
2,6-dimethyloct-7- en-2-ol	18479-58-8	PNEC	2.78 µg/l	aquatic organ- isms	marine water	short-term (single instance)
2,6-dimethyloct-7- en-2-ol	18479-58-8	PNEC	10 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
2,6-dimethyloct-7- en-2-ol	18479-58-8	PNEC	0.594 mg/ kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
2,6-dimethyloct-7- en-2-ol	18479-58-8	PNEC	0.059 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
2,6-dimethyloct-7- en-2-ol	18479-58-8	PNEC	0.103 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
Allyl Heptanoate	142-19-8	PNEC	0.12 µg/l	aquatic organ- isms	freshwater	short-term (single instance)
Allyl Heptanoate	142-19-8	PNEC	0.012 µg/l	aquatic organ- isms	marine water	short-term (single instance)
Allyl Heptanoate	142-19-8	PNEC	10 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Allyl Heptanoate	142-19-8	PNEC	0.012 mg/ kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Allyl Heptanoate	142-19-8	PNEC	0.001 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
Allyl Heptanoate	142-19-8	PNEC	0.002 mg/ kg	terrestrial organ- isms	soil	short-term (single instance)
OTBCH Acetate	20298-69-5	PNEC	0.057 mg/l	aquatic organ- isms	freshwater	short-term (single instance)
OTBCH Acetate	20298-69-5	PNEC	0.006 mg/l	aquatic organ- isms	marine water	short-term (single instance)
OTBCH Acetate	20298-69-5	PNEC	10 mg/l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
OTBCH Acetate	20298-69-5	PNEC	7.62 mg/kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
OTBCH Acetate	20298-69-5	PNEC	0.762 mg/ kg	aquatic organ- isms	marine sediment	short-term (single instance)
OTBCH Acetate	20298-69-5	PNEC	4.4 mg/kg	terrestrial organ- isms	soil	short-term (single instance)

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Relevant PNECs of components

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Verdyl propionate	68912-13-0	PNEC	91 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Verdyl propionate	68912-13-0	PNEC	9.1 µg/l	aquatic organ-isms	marine water	short-term (single instance)
Verdyl propionate	68912-13-0	PNEC	4.8 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Verdyl propionate	68912-13-0	PNEC	12.2 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Verdyl propionate	68912-13-0	PNEC	1.22 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Verdyl propionate	68912-13-0	PNEC	4.4 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Amberonne	54464-57-2	PNEC	4.4 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Amberonne	54464-57-2	PNEC	0.44 µg/l	aquatic organ-isms	marine water	short-term (single instance)
Amberonne	54464-57-2	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Amberonne	54464-57-2	PNEC	3.73 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Amberonne	54464-57-2	PNEC	0.75 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Amberonne	54464-57-2	PNEC	2.7 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Geraniol	106-24-1	PNEC	0.011 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Geraniol	106-24-1	PNEC	0.001 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Geraniol	106-24-1	PNEC	0.7 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Geraniol	106-24-1	PNEC	0.115 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.011 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.017 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.023 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.002 mg/l	aquatic organ-isms	marine water	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.223 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)

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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.022 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.031 mg/kg	terrestrial organisms	soil	short-term (single instance)
HEXYL CINNAMIC ALDEHYDE	101-86-0	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
HEXYL CINNAMIC ALDEHYDE	101-86-0	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
HEXYL CINNAMIC ALDEHYDE	101-86-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
HEXYL CINNAMIC ALDEHYDE	101-86-0	PNEC	3.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
HEXYL CINNAMIC ALDEHYDE	101-86-0	PNEC	0.064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
HEXYL CINNAMIC ALDEHYDE	101-86-0	PNEC	0.398 mg/kg	terrestrial organisms	soil	short-term (single instance)
Diethyl phthalate	84-66-2	PNEC	12 µg/l	aquatic organisms	freshwater	short-term (single instance)
Diethyl phthalate	84-66-2	PNEC	1.2 µg/l	aquatic organisms	marine water	short-term (single instance)
Diethyl phthalate	84-66-2	PNEC	2,000 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Diethyl phthalate	84-66-2	PNEC	137 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Diethyl phthalate	84-66-2	PNEC	13.7 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Diethyl phthalate	84-66-2	PNEC	137 µg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl 3-cyclohexylpropionate	2705-87-5	PNEC	1.28 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl 3-cyclohexylpropionate	2705-87-5	PNEC	0.128 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl 3-cyclohexylpropionate	2705-87-5	PNEC	0.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl 3-cyclohexylpropionate	2705-87-5	PNEC	237.5 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl 3-cyclohexylpropionate	2705-87-5	PNEC	23.75 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl 3-cyclohexylpropionate	2705-87-5	PNEC	46.61 µg/kg	terrestrial organisms	soil	short-term (single instance)
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	PNEC	2.2 µg/l	aquatic organisms	freshwater	short-term (single instance)
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	PNEC	0.22 µg/l	aquatic organisms	marine water	short-term (single instance)

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Relevant PNECs of components

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	PNEC	2.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	PNEC	1.72 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	PNEC	0.345 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	PNEC	0.01 mg/kg	terrestrial organisms	soil	short-term (single instance)
Diphenyloxide	101-84-8	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
Diphenyloxide	101-84-8	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Diphenyloxide	101-84-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Diphenyloxide	101-84-8	PNEC	0.093 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Diphenyloxide	101-84-8	PNEC	0.009 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Diphenyloxide	101-84-8	PNEC	0.018 mg/kg	terrestrial organisms	soil	short-term (single instance)
Hexahydro-Hexamethylcyclopentabenzopyran (HHCB)	1222-05-5	PNEC	4.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Hexahydro-Hexamethylcyclopentabenzopyran (HHCB)	1222-05-5	PNEC	0.44 µg/l	aquatic organisms	marine water	short-term (single instance)
Hexahydro-Hexamethylcyclopentabenzopyran (HHCB)	1222-05-5	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexahydro-Hexamethylcyclopentabenzopyran (HHCB)	1222-05-5	PNEC	2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexahydro-Hexamethylcyclopentabenzopyran (HHCB)	1222-05-5	PNEC	0.394 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexahydro-Hexamethylcyclopentabenzopyran (HHCB)	1222-05-5	PNEC	0.31 mg/kg	terrestrial organisms	soil	short-term (single instance)
Citronellol	106-22-9	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citronellol	106-22-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)

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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Citronellol	106-22-9	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citronellol	106-22-9	PNEC	0.026 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.004 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness

> 0.7 mm

- Breakthrough times of the glove material

>10 minutes (permeation: level 1)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	70 °C
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	not determined
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Density and/or relative density

Density	0.986 g/cm ³
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

Classification acc. to GHS

Acute toxicity

The classification criteria for these hazard classes are not met.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Allyl Heptanoate	142-19-8	oral	218 mg/kg
Allyl Heptanoate	142-19-8	dermal	810 mg/kg
Allyl 3-cyclohexylpropionate	2705-87-5	oral	500 mg/kg
Allyl 3-cyclohexylpropionate	2705-87-5	dermal	1,600 mg/kg
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	oral	920 mg/kg

Skin corrosion/irritation

Causes skin irritation.

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Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Degradability of components						
Name of sub- stance	CAS No	Process	Degradation rate	Time	Method	Source
d-Limonene	5989-27-5 68606-81-5	carbon dioxide generation	58.8 %	14 d		ECHA
d-Limonene	5989-27-5 68606-81-5	oxygen deple- tion	80 %	28 d		ECHA
Linalool	78-70-6	oxygen deple- tion	40.9 %	5 d		ECHA
2,6-dimethyl- oct-7-en-2-ol	18479-58-8	carbon dioxide generation	72 %	28 d		ECHA
2,6-dimethyl- oct-7-en-2-ol	18479-58-8	DOC removal	100 %	28 d		ECHA
Allyl Heptanoate	142-19-8	oxygen deple- tion	15 %	2 d		ECHA
OTBCH Acetate	20298-69-5	oxygen deple- tion	43 %	28 d		ECHA
Verdyl propion- ate	68912-13-0	oxygen deple- tion	15 %	28 d		ECHA

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Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Amberonne	54464-57-2	oxygen depletion	96.3 %	28 d		ECHA
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	oxygen depletion	6 %	4 d		ECHA
HEXYL CINNAMIC ALDEHYDE	101-86-0	oxygen depletion	97 %	28 d		ECHA
Diethyl phthalate	84-66-2	carbon dioxide generation	94.6 %	28 d		ECHA
Allyl 3-cyclohexylpropionate	2705-87-5	oxygen depletion	60 %	7 d		ECHA
Diphenyloxide	101-84-8	oxygen depletion	64 %	5 d		ECHA
Hexahydro-Hexamethylcyclopentabenzopyran (HH-CB)	1222-05-5	carbon dioxide generation	2 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
d-Limonene	5989-27-5 68606-81-5		4.38 (pH value: 7.2, 37 °C)	
Linalool	78-70-6		2.9 (pH value: 7, 20 °C)	
2,6-dimethyloct-7-en-2-ol	18479-58-8	64.8	3.25 (pH value: 7, 40 °C)	
Allyl Heptanoate	142-19-8	193.2	3.97 (pH value: 5.3, 20 °C)	
OTBCH Acetate	20298-69-5	156	4.7 (pH value: ~7, 25 °C)	
Verdyl propionate	68912-13-0	156	4.4 (30 °C)	
Amberonne	54464-57-2	391	5.6 (30 °C)	
Geraniol	106-24-1		2.6 (25 °C)	
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6		3.3 (20 °C)	
HEXYL CINNAMIC ALDEHYDE	101-86-0		5.3 (24 °C)	
Diethyl phthalate	84-66-2	13.1	2.2 (pH value: 7.5, 40 °C)	
Allyl 3-cyclohexylpropionate	2705-87-5	307.8	4.28 (pH value: ~5.3, 20 °C)	
7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	596	5.7 (24 °C)	
Diphenyloxide	101-84-8	196	4.21 (25 °C)	

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Bioaccumulative potential of components

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Hexahydro-Hexamethylcyclopentabenzopyran (HHCB)	1222-05-5	1,635	5.3 (pH value: 7, 25 °C)	
Citronellol	106-22-9	82.59	3.41 (25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

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

Remarks

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

SECTION 14: Transport information

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

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Information for each of the UN Model Regulations

Transport information - National regulations - Additional information (UN RTDG)

Not subject to transport regulations: UN RTDG

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

There is no additional information.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
ED	Endocrine disruptor
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

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Abbr.	Descriptions of used abbreviations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
log KOW	n-Octanol/water
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

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

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

Code	Text
H226	Flammable liquid and vapour.
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.

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Code	Text
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

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