Duftgranulat Classic

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

1.1. Product identifier

Trade name/designation:

Duftgranulat Classic

Article No.:
311

UFI:
RQDJ-7Q4J-SM3H-TS19

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

No data available

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Otto Oehme GmbH
FEA
Industriestr. 20
90584 Allersberg
Germany
Telephone: 09176/98050
Telefax: 09176/980555
E-mail: Info@Oehme-Lorito.de
Website: www.Oehme-Lorito.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:

GHS07
Exclamation mark

Duftgranulat Classic

Signal word: Warning

Hazard statements for health hazards	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH208	Contains 4-tert-butylcyclohexyl acetate, 4-allylanisole, 2-(4-tert-butylbenzyl)propionaldehyde, alpha PINEN, (Â±)-1,5-dimethyl-1-vinylhex-4-enyl acetate, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, coumarin, [3R-(3?,3a?,7?,8a?)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified), 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one. May produce an allergic reaction.

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water/....
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 18479-58-8 EC No.: 242-362-4 REACH No.: 01-2119457274-37-XXXX	**2,6-dimethyloct-7-en-2-ol** Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning	5 – < 20 weight-%
CAS No.: 78-70-6 EC No.: 201-134-4 REACH No.: 01-2119474016-42-XXXX	**linalool** Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	1 – < 5 weight-%
CAS No.: 470-82-6 EC No.: 207-431-5 REACH No.: 01-2119967772-24-XXXX	**1,8-CINEOL** Flam. Liq. 3 (H226), Skin Sens. 1B (H317) Warning	1 – < 1 weight-%
CAS No.: 27939-60-2 EC No.: 248-742-6	**Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified)** Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0 – < 1 weight-%
CAS No.: 68155-66-8 EC No.: 268-978-3	**1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one** Aquatic Chronic 1 (H410), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0 – < 1 weight-%
CAS No.: 54982-83-1 EC No.: 259-423-6	**1,4-dioxacyclohexadecane-5,16-dione** Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412) Warning M-factor (acute): 1	0 – < 1 weight-%

Duftgranulat Classic

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 80-54-6 EC No.: 201-289-8 REACH No.: 01-2119485965-18-XXXX	**2-(4-tert-butylbenzyl)propionaldehyde** *Candidate List of Substances of Very High Concern for Authorisation!* Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Repr. 2 (H361f), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0 – ≤ 1 weight-%
CAS No.: 32210-23-4 EC No.: 250-954-9 REACH No.: 01-2119976286-24	**4-tert-butylcyclohexyl acetate** Skin Sens. 1B (H317) Warning	0 – ≤ 1 weight-%
CAS No.: 52475-86-2 EC No.: 257-942-2	**1-methyl-4-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410) Warning	0 – < 1 weight-%
CAS No.: 32388-55-9 EC No.: 251-020-3	**[3R-(3?,3a?,7?,8a?)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Sens. 1B (H317) Warning	0 – < 1 weight-%
CAS No.: 115-95-7 EC No.: 204-116-4 REACH No.: 01-2119454789-19	**(Â±)-1,5-dimethyl-1-vinylhex-4-enyl acetate** Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Warning	0 – ≤ 1 weight-%
CAS No.: 140-67-0 EC No.: 205-427-8	**4-allylanisole** Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Carc. 2 (H351), Muta. 2 (H341), Skin Sens. 1B (H317) Warning	0 – < 1 weight-%
CAS No.: 80-56-8 EC No.: 201-291-9 REACH No.: 01-2119519223-49-XXXX	**alpha PINEN** Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Danger	0 – < 1 weight-%
CAS No.: 127-51-5 EC No.: 204-846-3	**3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one** Aquatic Chronic 2 (H411), Skin Sens. 1B (H317) Warning M-factor (acute): 1	0 – < 1 weight-%
CAS No.: 91-64-5 EC No.: 202-086-7	**coumarin** Acute Tox. 4 (H302), Skin Sens. 1B (H317) Warning M-factor (acute): 1	0 – < 1 weight-%

Full text of H- and EUH-phrases: see section 16.

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). If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Remove victim out of the danger area. Remove contaminated, saturated clothing.

Following inhalation:
Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:
If skin irritation or rash occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

After eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Duftgranulat Classic

Following ingestion:
Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:
Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed
Serious eye damage/eye irritation Skin corrosion/irritation Allergic reactions

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:
Adjust to the environment

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
Non-flammable. In case of fire hazardous combustion gases or vapors possible

Hazardous combustion products:
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Remove persons to safety. Avoid dust formation.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders
Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment:
Collect spillage. Measures to prevent aerosol and dust generation Wet clean or vacuum up solids.

For cleaning up:
Water (with cleaning agent)

6.4. Reference to other sections
Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information
Use appropriate container to avoid environmental contamination.

Duftgranulat Classic

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Wear personal protection equipment (refer to section 8).

Measures to prevent aerosol and dust generation:
Dust should be exhausted directly at the point of origin.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 13 – Non-combustible solids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:
If there is a risk of eye contact. Eye glasses with side protection EN 166

Skin protection:
Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:
Usually no personal respirative protection necessary.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid
Colour: white
Odour: scented

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	*not applicable*	
Melting point	*No data available*	
Freezing point	*No data available*	
Initial boiling point and boiling range	*No data available*	
Evaporation rate	*No data available*	
Vapour pressure	*No data available*	
Density	*No data available*	

Duftgranulat Classic

Parameter	Value	① Method ② Remark
Bulk density	*No data available*	
Water solubility	*No data available*	
Dynamic viscosity	*not applicable*	

particle characteristics:
No data available

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
Avoid high temperatures or direct sunlight.

10.5. Incompatible materials
No data available

10.6. Hazardous decomposition products
No data available

SECTION 11: Toxicological information

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

2,6-dimethyloct-7-en-2-ol CAS No.: 18479-58-8 EC No.: 242-362-4
LD_{50} oral: 3,020 mg/kg (rat)
linalool CAS No.: 78-70-6 EC No.: 201-134-4
LD_{50} oral: 2,790 mg/kg (rat)
LD_{50} dermal: 5,610 mg/kg (rabbit)
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified) CAS No.: 27939-60-2 EC No.: 248-742-6
LD_{50} oral: 3,900 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
LD_{50} dermal: >5,000 mg/kg (rabbit) OECD Guideline 402 (Acute Dermal Toxicity)
2-(4-tert-butylbenzyl)propionaldehyde CAS No.: 80-54-6 EC No.: 201-289-8
LD_{50} oral: 1,390 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
LD_{50} dermal: >2,000 mg/kg (rat) OECD Guideline 402 (Acute Dermal Toxicity)
LC_{50} Acute inhalation toxicity (vapour): >0.18 mg/L 7 h (rat)
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9
LD_{50} oral: 3,770 mg/kg (Ratte) OECD 401
LD_{50} dermal: 4,680 mg/kg (Kaninchen)
[3R-(3?,3a?,7?,8a?)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS No.: 32388-55-9 EC No.: 251-020-3
LD_{50} oral: 2,800 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
LD_{50} dermal: >2,000 mg/kg (rat)
(Â±)-1,5-dimethyl-1-vinylhex-4-enyl acetate CAS No.: 115-95-7 EC No.: 204-116-4
LD_{50} oral: >9,000 mg/kg (rat)
LD_{50} dermal: >5,000 mg/kg (rabbit) Acute dermal toxicity study in rabbits. Three rabbits were used. Observations were made for mortality and toxic effects for a period of 14 days.

Duftgranulat Classic

4-allylanisole CAS No.: 140-67-0 EC No.: 205-427-8	
LD_{50} oral: >300 – <2,000 mg/kg (rat) OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
coumarin CAS No.: 91-64-5 EC No.: 202-086-7	
LD_{50} oral: 290 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)	
LD_{50} dermal: 293 mg/kg (rat) no data	

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
May cause an allergic skin reaction. Contains 4-tert-butylcyclohexyl acetate, 4-allylanisole, 2-(4-tert-butylbenzyl)propionaldehyde, alpha PINEN, (Â±)-1,5-dimethyl-1-vinylhex-4-enyl acetate, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, coumarin, [3R-(3?,3a?,7?,8a?)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified), 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one. May produce an allergic reaction.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

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

Reproductive toxicity:
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.

Additional information:
No data available

11.2. Information on other hazards
No data available

SECTION 12: Ecological information

12.1. Toxicity

2,6-dimethyloct-7-en-2-ol CAS No.: 18479-58-8 EC No.: 242-362-4	
EC_{50}: 65 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))	
EC_{50}: 38 mg/L 2 d (crustaceans, Daphnia magna)	
NOEC: 25 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))	
NOEC: 18 mg/L 1 d (crustaceans, Daphnia magna)	
NOEC: 10 mg/L 2 d (crustaceans, Daphnia magna)	
LOEC: 50 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))	

Duftgranulat Classic

linalool CAS No.: 78-70-6 EC No.: 201-134-4
LC_{50}: 27.8 mg/L 2 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
LC_{50}: 27.8 mg/L 3 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
LC_{50}: 27.8 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 88.3 mg/L 4 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) DIN 38412 L 9
EC_{50}: 59 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC_{50}: 59 mg/L 2 d (Daphnia)
NOEC: <3.5 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 25 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
ErC_{50}: 156.7 mg/L 4 d (Algae/water plant)
1,8-CINEOL CAS No.: 470-82-6 EC No.: 207-431-5
LC_{50}: 57 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))
EC_{50}: >74 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
EC_{50}: >74 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 18 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
NOEC: 9.1 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
NOEC: 32 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))
NOEC: 100 mg/L 2 d (crustaceans, Daphnia magna)
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified) CAS No.: 27939-60-2 EC No.: 248-742-6
LC_{50}: 8.61 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))
EC_{50}: 22.2 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
EC_{50}: 26.4 mg/L 2 d (crustaceans, Daphnia magna)
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one CAS No.: 68155-66-8 EC No.: 268-978-3
LC_{50}: 1.3 mg/L 4 d (fish, Lepomis macrochirus (Bluegill)) OECD Prüfrichtlinie 203
EC_{50}: 1.38 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD- Prüfrichtlinie 202
NOEC: 0.028 mg/L (fish)
1,4-dioxacyclohexadecane-5,16-dione CAS No.: 54982-83-1 EC No.: 259-423-6
LC_{50}: 0.88 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 1.9 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: >14 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 0.61 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)

Duftgranulat Classic

2-(4-tert-butylbenzyl)propionaldehyde CAS No.: 80-54-6 EC No.: 201-289-8
LC_{50}: 2.04 mg/L 4 d (fish, Danio rerio (previous name: Brachydanio rerio)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 29.155 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) German standard DIN 38412, part 9
EC_{50}: 10.7 mg/L 2 d (crustaceans, Daphnia magna) 79/831/EWG, Annex 5, Part C
NOEC: 1.28 mg/L 4 d (fish, Danio rerio (previous name: Brachydanio rerio)) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 0.0195 mg/L 21 d (fish, Pimephales promelas) OECD 229
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9
LC_{50}: 8.6 mg/L 4 d (fish, Cyprinus carpio) EU Method C.1 (Acute Toxicity for Fish)
EC_{50}: 5.3 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 22 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) EU Method C.3 (Algal Inhibition test)
NOEC: 6.8 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) EU Method C.3 (Algal Inhibition test)
[3R-(3?,3a?,7?,8a?)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS No.: 32388-55-9 EC No.: 251-020-3
LC_{50}: 2.3 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: ≥0.27 – ≤0.42 mg/L 4 d (crustaceans, Daphnia magna) EPA-660/3-75-009
EC_{50}: 2.8 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
EC_{50}: 0.86 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 1.07 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
NOEC: 0.087 mg/L 21 d (crustaceans, Daphnia magna)
LOEC: 0.23 mg/L 21 d (crustaceans, Daphnia magna)
(Â±)-1,5-dimethyl-1-vinylhex-4-enyl acetate CAS No.: 115-95-7 EC No.: 204-116-4
LC_{50}: 11 mg/L 4 d (fish, Cyprinus carpio) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 59 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 25 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-allylanisole CAS No.: 140-67-0 EC No.: 205-427-8
EC_{50}: 2.81 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: 8.87 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 0.223 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: 4.73 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
alpha PINEN CAS No.: 80-56-8 EC No.: 201-291-9
LC_{50}: 0.303 mg/L 4 d (fish, Danio rerio (previous name: Brachydanio rerio)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 0.475 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.131 mg/L 2 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS No.: 127-51-5 EC No.: 204-846-3
LC_{50}: 10.9 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))
EC_{50}: >20 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: 1.428 mg/L 4 d (fish, Fish) Modeling database
EC_{50}: 9 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 4.7 mg/L 3 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 10 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))
NOEC: 7.8 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))
NOEC: 1 mg/L 2 d (crustaceans, Daphnia magna)
coumarin CAS No.: 91-64-5 EC No.: 202-086-7
LC_{50}: 1.324 mg/L 4 d (fish) QSAR, acrylates
EC_{50}: 1.452 mg/L 4 d (Algae/water plant) REACH guidance on QSARs R.6, May/July 2008
EC_{50}: 8.012 mg/L 2 d (crustaceans, Daphnia sp.) QSAR acrylates
NOEC: 0.431 mg/L 3 d (Algae/water plant) REACH guidance on QSARs R.6, May/July 2008
NOEC: 0.5 mg/L 21 d (crustaceans) REACH guidance on QSARs R.6, May/July 2008

Aquatic toxicity:
Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

2,6-dimethyloct-7-en-2-ol CAS No.: 18479-58-8 EC No.: 242-362-4
Biodegradation: Yes, rapidly
linalool CAS No.: 78-70-6 EC No.: 201-134-4
Biodegradation: Yes, rapidly
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9
Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

2,6-dimethyloct-7-en-2-ol CAS No.: 18479-58-8 EC No.: 242-362-4
Log K_{OW}: 3.25
linalool CAS No.: 78-70-6 EC No.: 201-134-4
Log K_{OW}: 2.9
1,8-CINEOL CAS No.: 470-82-6 EC No.: 207-431-5
Log K_{OW}: 3.4
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified) CAS No.: 27939-60-2 EC No.: 248-742-6
Log K_{OW}: 3.2
1,4-dioxacyclohexadecane-5,16-dione CAS No.: 54982-83-1 EC No.: 259-423-6
Log K_{OW}: 3.65
2-(4-tert-butylbenzyl)propionaldehyde CAS No.: 80-54-6 EC No.: 201-289-8
Log K_{OW}: 4.2
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9
Log K_{OW}: 4.8
[3R-(3?,3a?,7?,8a?)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS No.: 32388-55-9 EC No.: 251-020-3
Log K_{OW}: ≤ 5.9
Bioconcentration factor (BCF): ≤ 1,700 Species: Oncorhynchus mykiss (previous name: Salmo gairdneri)
(Â±)-1,5-dimethyl-1-vinylhex-4-enyl acetate CAS No.: 115-95-7 EC No.: 204-116-4
Log K_{OW}: 3.9
4-allylanisole CAS No.: 140-67-0 EC No.: 205-427-8
Log K_{OW}: 3.4

alpha PINEN CAS No.: 80-56-8 EC No.: 201-291-9
Log K_{OW}: 4.42
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS No.: 127-51-5 EC No.: 204-846-3
Log K_{OW}: 4.288
coumarin CAS No.: 91-64-5 EC No.: 202-086-7
Log K_{OW}: 1.51

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

2,6-dimethyloct-7-en-2-ol CAS No.: 18479-58-8 EC No.: 242-362-4
Results of PBT and vPvB assessment: —
linalool CAS No.: 78-70-6 EC No.: 201-134-4
Results of PBT and vPvB assessment: —
1,8-CINEOL CAS No.: 470-82-6 EC No.: 207-431-5
Results of PBT and vPvB assessment: —
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified) CAS No.: 27939-60-2 EC No.: 248-742-6
Results of PBT and vPvB assessment: —
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one CAS No.: 68155-66-8 EC No.: 268-978-3
Results of PBT and vPvB assessment: —
1,4-dioxacyclohexadecane-5,16-dione CAS No.: 54982-83-1 EC No.: 259-423-6
Results of PBT and vPvB assessment: —
2-(4-tert-butylbenzyl)propionaldehyde CAS No.: 80-54-6 EC No.: 201-289-8
Results of PBT and vPvB assessment: —
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9
Results of PBT and vPvB assessment: —
1-methyl-4-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde CAS No.: 52475-86-2 EC No.: 257-942-2
Results of PBT and vPvB assessment: —
[3R-(3?,3a?,7?,8a?)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS No.: 32388-55-9 EC No.: 251-020-3
Results of PBT and vPvB assessment: —
(Â±)-1,5-dimethyl-1-vinylhex-4-enyl acetate CAS No.: 115-95-7 EC No.: 204-116-4
Results of PBT and vPvB assessment: —
4-allylanisole CAS No.: 140-67-0 EC No.: 205-427-8
Results of PBT and vPvB assessment: —
alpha PINEN CAS No.: 80-56-8 EC No.: 201-291-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS No.: 127-51-5 EC No.: 204-846-3
Results of PBT and vPvB assessment: —
coumarin CAS No.: 91-64-5 EC No.: 202-086-7
Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties
No data available

12.7. Other adverse effects
No data available

Duftgranulat Classic

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 03 05 *	organic wastes containing hazardous substances

**: Evidence for disposal must be provided.*

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Ingredients according to the Detergents Regulation 648/2004/EG:
perfumes

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

Duftgranulat Classic

16.3. Key literature references and sources for data

Substance name	Type	source of supply
1,4-dioxacyclohexadecane-5,16-dione CAS No.: 54982-83-1 EC No.: 259-423-6	Classification of the substance or mixture; LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
[3R-(3?,3a?,7?,8a?)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one CAS No.: 32388-55-9 EC No.: 251-020-3	Classification of the substance or mixture; LD_{50} oral; LD_{50} dermal; LC_{50}; EC_{50}; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
2,6-dimethyloct-7-en-2-ol CAS No.: 18479-58-8 EC No.: 242-362-4	LD_{50} oral; EC_{50}; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified) CAS No.: 27939-60-2 EC No.: 248-742-6	LD_{50} oral; LD_{50} dermal; LC_{50}; EC_{50}	Source: European Chemicals Agency, http://echa.europa.eu/
2-(4-tert-butylbenzyl)propionaldehyde CAS No.: 80-54-6 EC No.: 201-289-8	LD_{50} oral; LD_{50} dermal; LC_{50} Acute inhalation toxicity (vapour); LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
(Â±)-1,5-dimethyl-1-vinylhex-4-enyl acetate CAS No.: 115-95-7 EC No.: 204-116-4	LD_{50} oral; LD_{50} dermal; LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
4-allylanisole CAS No.: 140-67-0 EC No.: 205-427-8	LD_{50} oral; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
coumarin CAS No.: 91-64-5 EC No.: 202-086-7	LD_{50} oral; LD_{50} dermal; LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
linalool CAS No.: 78-70-6 EC No.: 201-134-4	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
1,8-CINEOL CAS No.: 470-82-6 EC No.: 207-431-5	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
alpha PINEN CAS No.: 80-56-8 EC No.: 201-291-9	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS No.: 127-51-5 EC No.: 204-846-3	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
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.

16.6. Training advice
No data available

16.7. Additional information
The information is based on our current level of knowledge and is used to describe the product with regard to the safety precautions to be taken. They do not represent a guarantee of the properties of the product described.
It is the responsibility of the recipient of our product to observe existing laws and regulations.