



PLUG-IN MOMENTS SWEET ORCHID

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 30/03/2021 Revision date: 12/05/2023 Supersedes version of: 03/11/2021 Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Product name : PLUG-IN MOMENTS SWEET ORCHID
UFI : 1KNA-2XTA-QS1J-33N4
Product code : PGM698 / PGM-PR-139 / PGM-2R-251
Product group : Trade product

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Use of the substance/mixture : Air Freshener

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

R P R Keeling Limited T/A Keelings Group
38 Main Street
K67 E0A2 Swords – Dublin
Ireland
T +353 (0)1 96 97 657
info@airpure.com

Supplier UK

Airpure International Limited T/A Keelings Group
Airpure House Parsons Lane, Bury.
BL9 0JT Lancashire
UK
T UK FREEPHONE 0800 005 1010
info@airpure.com - www.airpure.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains

: Tetrahydrolinalool; 2,4-dimethylcyclohex-3-ene-1-carbaldehyde ; Linalool; Linalyl acetate; Hexyl cinnamal; Nerol; Isoeugenol; Indole; Hydroxycitronella

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

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Precautionary statements (CLP)	: P103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P501 - Dispose of contents and container to Collection point.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
DPM (34590-94-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Tetrahydrolinalool (78-69-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Linalool (78-70-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Benzyl acetate (140-11-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Linalyl acetate (115-95-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Hexyl cinnamal (101-86-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Nerol (106-25-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Phenethyl alcohol (60-12-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Isoeugenol (97-54-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Indole (120-72-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
DPM substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2	5 – 10	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenethyl alcohol	CAS-No.: 60-12-8 EC-No.: 200-456-2	2 – 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Tetrahydrolinalool	CAS-No.: 78-69-3 EC-No.: 201-133-9	< 1	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4	< 1	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Hydroxycitronella	CAS-No.: 107-75-5 EC-No.: 203-518-7	< 1	Skin Sens. 1, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	CAS-No.: 68039-49-6 EC-No.: 268-264-1	< 1	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Hexyl cinnamal	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50	< 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Allyl heptanoate	CAS-No.: 142-19-8 EC-No.: 205-527-1	< 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	< 1	Skin Sens. 1B, H317
Nerol	CAS-No.: 106-25-2 EC-No.: 203-378-7 REACH-no: 01-2119983244-33	< 1	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Indole	CAS-No.: 120-72-9 EC-No.: 204-420-7	< 1	Acute Tox. 3 (Dermal), H311 Skin Sens. 1, H317 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Isoeugenol	CAS-No.: 97-54-1 EC-No.: 202-590-7 EC Index-No.: 604-094-00-X	< 1	Skin Sens. 1A, H317

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Isoeugenol	CAS-No.: 97-54-1 EC-No.: 202-590-7 EC Index-No.: 604-094-00-X	(0.01 ≤ C ≤ 100) Skin Sens. 1A, H317

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
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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	: Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
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Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

DPM (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308 mg/m ³
IOEL TWA [ppm]	50 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	(2-methoxymethylethoxy) propanol
WEL TWA (OEL TWA) [1]	308 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Glass bottle with liquid.
Odour	: Floral.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

DPM (34590-94-8)	
LD50 oral rat	> 5000 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	9510 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
Tetrahydrolinalool (78-69-3)	
LD50 oral rat	8270 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Experimental value, Dermal)
2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)	
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	2790 mg/kg bodyweight

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Linalool (78-70-6)	
LD50 dermal rat	5610 mg/kg (Rat)
LD50 dermal rabbit	5610 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 7 day(s))
LD50 dermal	5610 mg/kg bodyweight
Linalyl acetate (115-95-7)	
LD50 oral rat	> 9000 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, Oral, 7 day(s))
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Rabbit, Experimental value, Dermal, 14 day(s))
Hexyl cinnamal (101-86-0)	
LD50 oral rat	3100 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value of similar product, Isomer, Oral, 14 day(s))
LD50 oral	> 2450 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Female, Experimental value of similar product, Isomer, Dermal, 7 day(s))
LD50 dermal	> 3000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value of similar product, Isomer, Inhalation (aerosol), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l
Nerol (106-25-2)	
LD50 oral rat	4500 mg/kg (Rat, Oral)
LD50 oral	4500 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
LD50 dermal	> 5000 mg/kg bodyweight
Phenethyl alcohol (60-12-8)	
LD50 oral rat	1603 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	2535 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 4.63 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
Isoeugenol (97-54-1)	
LD50 oral	1560 mg/kg bodyweight
Indole (120-72-9)	
LD50 oral rat	1000 mg/kg (Rat, Male, Experimental value, Oral)
LD50 dermal rabbit	790 mg/kg (Rabbit, Male, Experimental value, Dermal)
Hydroxycitronella (107-75-5)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
Skin corrosion/irritation	: Not classified
DPM (34590-94-8)	
pH	7 (100 %)

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Tetrahydrolinalool (78-69-3)	
pH	9 (Calculated, 320 mg/l, 25 °C)
Linalool (78-70-6)	
pH	4.5 (0.1 %)
Hexyl cinnamal (101-86-0)	
pH	No data available in the literature
Phenethyl alcohol (60-12-8)	
pH	6 – 7
Isoeugenol (97-54-1)	
pH	No data available in the literature
Hydroxycitronella (107-75-5)	
pH	7
Serious eye damage/irritation	: Not classified
DPM (34590-94-8)	
pH	7 (100 %)
Tetrahydrolinalool (78-69-3)	
pH	9 (Calculated, 320 mg/l, 25 °C)
Linalool (78-70-6)	
pH	4.5 (0.1 %)
Hexyl cinnamal (101-86-0)	
pH	No data available in the literature
Phenethyl alcohol (60-12-8)	
pH	6 – 7
Isoeugenol (97-54-1)	
pH	No data available in the literature
Hydroxycitronella (107-75-5)	
pH	7
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
DPM (34590-94-8)	
Viscosity, kinematic	4.55 mm ² /s (20 °C, OECD 114: Viscosity of Liquids)
Tetrahydrolinalool (78-69-3)	
Viscosity, kinematic	13.393 mm ² /s
Linalyl acetate (115-95-7)	
Viscosity, kinematic	2.77 mm ² /s (20 °C, OECD 114: Viscosity of Liquids)

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Hexyl cinnamal (101-86-0)	
Viscosity, kinematic	No data available in the literature
Nerol (106-25-2)	
Viscosity, kinematic	10.148 mm²/s
Phenethyl alcohol (60-12-8)	
Viscosity, kinematic	14.1 mm²/s (20 °C, OECD 114: Viscosity of Liquids)
Isoeugenol (97-54-1)	
Viscosity, kinematic	No data available in the literature

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

DPM (34590-94-8)	
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Poecilia reticulata, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	> 969 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

Tetrahydrolinalool (78-69-3)	
LC50 - Fish [1]	8.9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	14.2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	21.6 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)

Linalool (78-70-6)	
LC50 - Fish [1]	27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
LC50 - Fish [2]	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
EC50 - Crustacea [1]	59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 - Other aquatic organisms [1]	≥ 100 mg/l (3 h; Activated sludge)
EC50 - Other aquatic organisms [2]	88.3 mg/l
ErC50 algae	156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Threshold limit - Algae [1]	88.3 mg/l (EC50; 96 h)

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Linalyl acetate (115-95-7)	
LC50 - Fish [1]	11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Flow-through system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Hexyl cinnamal (101-86-0)	
LC50 - Fish [1]	1.7 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value of similar product, Other isomer)
EC50 - Crustacea [1]	0.36 – 0.59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value of similar product, Other isomer)
EC50 - Other aquatic organisms [2]	> 0.32 mg/l
ErC50 algae	> 0.065 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value of similar product, Other isomer)
Nerol (106-25-2)	
LC50 - Fish [1]	20.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	32.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	9.54 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Phenethyl alcohol (60-12-8)	
LC50 - Fish [1]	215 – 464 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	287.17 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	1300 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Isoeugenol (97-54-1)	
LC50 - Fish [1]	3.6 mg/l (Equivalent or similar to OECD 203, 96 h, Danio rerio, Fresh water, QSAR, Other isomer)
EC50 - Crustacea [1]	3 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Fresh water, QSAR, Other isomer)
EC50 - Other aquatic organisms [1]	7.5 mg/l waterflea
EC50 72h - Algae [1]	5.6 mg/l (Equivalent or similar to OECD 201, Pseudokirchneriella subcapitata, Fresh water, QSAR, Other isomer)
Indole (120-72-9)	
LC50 - Fish [1]	19.76 mg/l (ECOSAR, 96 h, QSAR)
EC50 96h - Algae [1]	37.3 mg/l (QSAR)

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12.2. Persistence and degradability

DPM (34590-94-8)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0 g O ₂ /g substance
ThOD	2.06 g O ₂ /g substance
Tetrahydrolinalool (78-69-3)	
Persistence and degradability	Readily biodegradable in water.
2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)	
Persistence and degradability	Biodegradability in water: no data available.
Linalool (78-70-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.531 g O ₂ /g substance
Chemical oxygen demand (COD)	2.808 g O ₂ /g substance
Linalyl acetate (115-95-7)	
Persistence and degradability	Readily biodegradable in water.
Hexyl cinnamal (101-86-0)	
Persistence and degradability	Readily biodegradable in water.
Nerol (106-25-2)	
Persistence and degradability	Readily biodegradable in water.
Phenethyl alcohol (60-12-8)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.45 g O ₂ /g substance
Chemical oxygen demand (COD)	2.5 g O ₂ /g substance
ThOD	2.6 g O ₂ /g substance
Isoeugenol (97-54-1)	
Persistence and degradability	Readily biodegradable in water.
Indole (120-72-9)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	2.07 g O ₂ /g substance
Chemical oxygen demand (COD)	2.46 g O ₂ /g substance
ThOD	2.46 g O ₂ /g substance
BOD (% of ThOD)	0.84
Hydroxycitronella (107-75-5)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.65 g O ₂ /g substance

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12.3. Bioaccumulative potential

DPM (34590-94-8)	
Partition coefficient n-octanol/water (Log Pow)	0.004 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Tetrahydrolinalool (78-69-3)	
BCF - Other aquatic organisms [1]	99.87 l/kg (BCFBAF v3.00, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	3.3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)	
Partition coefficient n-octanol/water (Log Pow)	2.7
Bioaccumulative potential	No bioaccumulation data available.
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Linalyl acetate (115-95-7)	
BCF - Fish [1]	173.9 l/kg (BCFBAF v3.00, Calculated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.9 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Hexyl cinnamal (101-86-0)	
Partition coefficient n-octanol/water (Log Pow)	5.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
Nerol (106-25-2)	
Partition coefficient n-octanol/water (Log Pow)	3.47 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Phenethyl alcohol (60-12-8)	
Partition coefficient n-octanol/water (Log Pow)	1.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Isoeugenol (97-54-1)	
Partition coefficient n-octanol/water (Log Pow)	2.1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Indole (120-72-9)	
BCF - Fish [1]	13.8
Partition coefficient n-octanol/water (Log Pow)	2.24 (QSAR)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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Hydroxycitronella (107-75-5)	
Partition coefficient n-octanol/water (Log Pow)	2.11 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
DPM (34590-94-8)	
Surface tension	68.7 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil. Not toxic to plants.
Tetrahydrolinalool (78-69-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.75 (log Koc, PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.
2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)	
Ecology - soil	No (test)data on mobility of the substance available.
Linalool (78-70-6)	
Surface tension	8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension)
Ecology - soil	No (test)data on mobility of the substance available.
Linalyl acetate (115-95-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.71 (log Koc, PCKOCWIN v1.66, Calculated value)
Ecology - soil	Low potential for adsorption in soil.
Hexyl cinnamal (101-86-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.2 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, Other isomer)
Ecology - soil	Low potential for mobility in soil.
Nerol (106-25-2)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9738 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Highly mobile in soil.
Phenethyl alcohol (60-12-8)	
Surface tension	59.7 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.5 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Highly mobile in soil.
Isoeugenol (97-54-1)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.829 – 2.834 (log Koc, SRC PCKOCWIN v2.0, Calculated value, Other isomer)

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Isoeugenol (97-54-1)

Ecology - soil	Low potential for adsorption in soil.
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Indole (120-72-9)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.4 (log Koc, SRC PCKOCWIN v2.0, Estimated value)
Ecology - soil	Low potential for adsorption in soil.

12.5. Results of PBT and vPvB assessment

Component

DPM (34590-94-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Tetrahydrolinalool (78-69-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Linalool (78-70-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Benzyl acetate (140-11-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Linalyl acetate (115-95-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Hexyl cinnamal (101-86-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Nerol (106-25-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Phenethyl alcohol (60-12-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Isoeugenol (97-54-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Indole (120-72-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant

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Abbreviations and acronyms:	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.