

Orphea Salvalana Foglietti Fiori / Orphea Salvalana Grandi Armadi Fiori / Orphea Salvalana Sacchetti Fiori

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 9/10/2009 Revision date: 9/24/2018 Supersedes: 6/6/2018 Version: 11.2

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

1.1. Product identifier

Product form : Mixture
Product name : Orphea Salvalana Foglietti Fiori / Orphea Salvalana Grandi Armadi Fiori / Orphea Salvalana Sacchetti Fiori
Product code : OF9035240G
Other means of identification : Article number : OF9035240G

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

1.2.1. Relevant identified uses

Intended for general public
Use of the substance/mixture : Anti-moth for wardrobe and drawers

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

TAVOLA S.p.A.
Via Bernardino Verro 35
20141 Milano - ITALIA
T +39 02 844731 - F +39 02 8465461
info@tavola.it

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	-

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315
Eye Irrit. 2 H319
Aquatic Chronic 2 H411
Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Impregnation lotion : Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P264 - Wash hands, forearms and face thoroughly after handling. P273 - Avoid release to the environment. 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. P337+P313 - If eye irritation persists: Get medical advice/attention. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH208 - Contains Linalyl acetate(115-95-7), Benzyl salicylate(118-58-1), Linalool(78-70-6), 7-hydroxycitronellal(107-75-5), Nopyl acetate(128-51-8), α -hexylcinnamaldehyde(101-86-0), (R)-p-mentha-1,8-diene(5989-27-5), Coumarin(91-64-5), citral(5392-40-5), Geraniol(106-24-1), Cedryl acetate(77-54-3), Acetyl cedrene (32388-55-9), Eugenol(97-53-0), Caryophyllene(87-44-5), oct-1-en-3-yl acetate(2442-10-6), Citronellal(106-23-0), Citronellol(106-22-9), pin-2(3)-ene(80-56-8), Geranyl acetate(105-87-3), piperonal(120-57-0), (-)-pin-2(10)-ene(127-91-3, 18172-67-3), Cineole(470-82-6), Cinnamyl alcohol(104-54-1), p-Menthan-8-yl acetate(58985-18-5), isomenthone(491-07-6), Citronellyl formate(105-85-1). May produce an allergic reaction.

Labelling according to: exemption for packages of a capacity of 125ml or less

Hazard pictograms (CLP)	:  
	GHS07 GHS09

Signal word (CLP)	: Warning
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P302+P352 - IF ON SKIN: Wash with plenty of water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH208 - Contains Linalyl acetate(115-95-7), Benzyl salicylate(118-58-1), Linalool(78-70-6), 7-hydroxycitronellal(107-75-5), Nopyl acetate(128-51-8), α -hexylcinnamaldehyde(101-86-0), (R)-p-mentha-1,8-diene(5989-27-5), Coumarin(91-64-5), citral(5392-40-5), Geraniol(106-24-1), Cedryl acetate(77-54-3), Acetyl cedrene (32388-55-9), Eugenol(97-53-0), Caryophyllene(87-44-5), oct-1-en-3-yl acetate(2442-10-6), Citronellal(106-23-0), Citronellol(106-22-9), pin-2(3)-ene(80-56-8), Geranyl acetate(105-87-3), piperonal(120-57-0), (-)-pin-2(10)-ene(127-91-3, 18172-67-3), Cineole(470-82-6), Cinnamyl alcohol(104-54-1), p-Menthan-8-yl acetate(58985-18-5), isomenthone(491-07-6), Citronellyl formate(105-85-1). May produce an allergic reaction.

2.3. Other hazards

Other hazards not contributing to the classification : None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Carrier impregnated with biocidal lotion

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Linalyl acetate	(CAS-No.) 115-95-7 (EC-No.) 204-116-4 (REACH-no) 01-2119454789-19	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Benzyl salicylate	(CAS-No.) 118-58-1 (EC-No.) 204-262-9	5 - 10	Eye Irrit. 2, H319 Skin Sens. 1B, H317 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	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317

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7-hydroxycitronellal	(CAS-No.) 107-75-5 (EC-No.) 203-518-7 (REACH-no) 01-2119973482-31	1 - 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	(CAS-No.) 1506-02-1 (EC-No.) 216-133-4	1 - 5	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzyl acetate	(CAS-No.) 140-11-4 (EC-No.) 205-399-7 (REACH-no) 01-2119638272-42	1 - 5	Aquatic Chronic 3, H412
Nopyl acetate	(CAS-No.) 128-51-8 (EC-No.) 204-891-9	1 - 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Ionone, methyl-	(CAS-No.) 1335-46-2 (EC-No.) 215-635-0 (REACH-no) 01-2119471851-35	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
α -hexylcinnamaldehyde	(CAS-No.) 101-86-0 (EC-No.) 202-983-3	1 - 5	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
(R)-p-mentha-1,8-diene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Coumarin	(CAS-No.) 91-64-5 (EC-No.) 202-086-7	1 - 5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411
2-benzylideneheptanal	(CAS-No.) 122-40-7 (EC-No.) 204-541-5	1 - 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Terpineol, acetate	(CAS-No.) 8007-35-0 (EC-No.) 232-357-5	1 - 5	Aquatic Chronic 2, H411
Geraniol	(CAS-No.) 106-24-1 (EC-No.) 203-377-1 (REACH-no) 01-2119552430-49	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Eugenol	(CAS-No.) 97-53-0 (EC-No.) 202-589-1 (REACH-no) 01-2119971802-33	1 - 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Citronellol	(CAS-No.) 106-22-9 (EC-No.) 203-375-0 (REACH-no) 01-2119453995-23	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethenyl)-, (1S,4S,7R)-	(CAS-No.) 3691-12-1	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304
2-phenylethanol	(CAS-No.) 60-12-8 (EC-No.) 200-456-2 (REACH-no) 01-2119963921-31	1 - 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Caryophyllene	(CAS-No.) 87-44-5 (EC-No.) 201-746-1 (REACH-no) 01-2119977131-40	1 - 5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
Ethyl 2-naphthyl ether	(CAS-No.) 93-18-5 (EC-No.) 202-226-7	1 - 5	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9	1 - 5	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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(-)-pin-2(10)-ene	(CAS-No.) 127-91-3, 18172-67-3 (EC-No.) 204-872-5; 242-060-2	0.5 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,7-dimethylocta-1,3,6-triene	(CAS-No.) 13877-91-3 (EC-No.) 237-641-2 (REACH-no) 01-2120739475-47	0.5 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Musk ketone	(CAS-No.) 81-14-1 (EC-No.) 201-328-9 (EC Index-No.) 609-069-00-7	0.5 - 1	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cinnamyl alcohol	(CAS-No.) 104-54-1 (EC-No.) 203-212-3	0.5 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317
Citronellal	(CAS-No.) 106-23-0 (EC-No.) 203-376-6 (REACH-no) 01-2119474900-37	0.1 - 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Acetyl cedrene	(CAS-No.) 32388-55-9 (EC-No.) 251-020-3	0.1 - 0.5	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
7-methyl-3-methyleneocta-1,6-diene	(CAS-No.) 123-35-3 (EC-No.) 204-622-5	0.1 - 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Geranyl acetate	(CAS-No.) 105-87-3 (EC-No.) 203-341-5 (REACH-no) 01-2119973480-35	0.1 - 0.5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Cedryl acetate	(CAS-No.) 77-54-3 (EC-No.) 201-036-1 (REACH-no) 01-2120739845-42	0.1 - 0.5	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
piperonal	(CAS-No.) 120-57-0 (EC-No.) 204-409-7 (REACH-no) 01-2119983608-21	0.1 - 0.5	Skin Sens. 1B, H317
Cineole	(CAS-No.) 470-82-6 (EC-No.) 207-431-5 (REACH-no) 01-2119967772-24	0.1 - 0.5	Flam. Liq. 3, H226 Skin Sens. 1B, H317
Citronellyl formate	(CAS-No.) 105-85-1 (EC-No.) 203-338-9 (REACH-no) 01-2120132106-71	0.1 - 0.5	Skin Irrit. 2, H315 Skin Sens. 1B, H317
pin-2(3)-ene	(CAS-No.) 80-56-8 (EC-No.) 201-291-9	0.1 - 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
citral	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3 (REACH-no) 01-2119462829-23	0.1 - 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
oct-1-en-3-yl acetate	(CAS-No.) 2442-10-6 (EC-No.) 219-474-7	0.1 - 0.5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
p-Menthan-8-yl acetate	(CAS-No.) 58985-18-5 (EC-No.) 261-543-9	0.1 - 0.5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
isomenthone	(CAS-No.) 491-07-6 (EC-No.) 207-727-4	0.1 - 0.5	Skin Irrit. 2, H315 Skin Sens. 1, H317

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Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. Get medical advice and attention if you feel unwell.
First-aid measures after skin contact	: Rinse immediately with plenty of water. In case of redness or irritation, call a doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult an eye specialist.
First-aid measures after ingestion	: Never attempt to induce vomiting. Get medical advice and attention if you feel unwell.

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

Symptoms/effects after skin contact	: Exposure may produce an allergic reaction. Irritation.
Symptoms/effects after eye contact	: Irritation.

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. Carbon dioxide (CO ₂). Dry powder.
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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. Carbon oxides (CO, CO ₂).
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5.3. Advice for firefighters

Precautionary measures fire	: Does not require any specific or particular technical measures.
Firefighting instructions	: Do not discharge into drains or the environment. Contain the extinguishing fluids by bunding (the product is hazardous for the environment).
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ensure adequate ventilation.
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6.1.1. For non-emergency personnel

Emergency procedures	: Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment.
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6.1.2. For emergency responders

Protective equipment	: Concerning personal protective equipment to use, see section 8.
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Mechanically recover the product.
Methods for cleaning up	: Wash contaminated area with large amounts of water. Recover the cleaning water for later disposal.

6.4. Reference to other sections

Concerning disposal elimination after cleaning, see 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.
Hygiene measures	: Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Does not require any specific or particular technical measures.
Storage conditions	: Keep container tightly closed and in well ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves made of rubber. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

Safety glasses

Skin and body protection:

Protective clothing

Respiratory protection:

If the ventilation is suitable, it is not essential to wear respiratory equipment. In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Variable.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 35 °C (Impregnation lotion)
Flash point	: 90 °C (Impregnation lotion)
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Insoluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None to our knowledge.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Linalyl acetate (115-95-7)

LD50 oral rat	> 9000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Published data)

Linalool (78-70-6)

LD50 oral rat	2790 mg/kg (OECD 401 method)
LD50 dermal rabbit	5610 mg/kg (equivalent or similar to OECD Guideline 402)
LC50 inhalation rat	> 3.2 mg/l 90 minutes

2-benzylideneheptanal

LD50 dermal rabbit	> 2000 mg/kg bodyweight
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1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (1506-02-1)

LD50 oral rat	920 mg/kg (OECD 401 method)
LD50 dermal rat	7940 mg/kg

2-phenylethanol (60-12-8)

LD50 oral rat	1603.3 mg/kg (OECD 401 method)
LD50 dermal rabbit	2535 mg/kg (OECD 402 method)
LC50 inhalation rat	> 4.63 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified.
Additional information	: Guinea pig Magnusson & Kligman (Maximisation test) : No sensitizing effect known
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

Benzyl acetate

IARC group	3 - Not classifiable
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(R)-p-mentha-1,8-diene (5989-27-5)

IARC group	3 - Not classifiable
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7-methyl-3-methyleneocta-1,6-diene

IARC group	2B - Possibly carcinogenic to humans
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Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
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Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Linalyl acetate (115-95-7)

LC50 fish	11 mg/l/96h (OECD 203 method) (Cyprinus carpio)
EC50 Daphnia	59 mg/l/48 h (OECD 202 method) (Daphnia magna)
ErC50 (algae)	156.7 mg/l/96h (Desmodesmus subspicatus)
NOEC (acute)	9.6 mg/l/72 h (Algae)

Linalool (78-70-6)

LC50 fish	27.8 mg/l/96h (Oncorhynchus mykiss) (OECD 203 method)
EC50 Daphnia	59 mg/l/48 h (Daphnia magna) (OECD 202 method)
ErC50 (algae)	156.7 mg/l/96h (Desmodesmus subspicatus)

Benzyl acetate

NOEC chronic fish	0.92 mg/l/ 28 days (Oryzias latipes)
NOEC chronic algae	52 mg/l/72 h (Desmodesmus subspicatus)(OECD 201 method)

(R)-p-mentha-1,8-diene (5989-27-5)

LC50 fish	0.72 mg/l/96h (Pimephales promelas) (OECD 203 method)
EC50 Daphnia	0.307 mg/l/48 h (Daphnia magna) (OECD 202 method)
ErC50 (algae)	0.32 mg/l/72 h (Pseudokirchnerella subcapitata) (OECD 201 method)
NOEC chronic fish	0.08 mg/l/ 28 days Quantitative structure-activity relationship (QSAR)(OECD 210 method)
NOEC chronic crustacea	0.08 mg/l/ 21 days (Daphnia magna)(OECD 211 method)
NOEC chronic algae	0.174 mg/l/72 h (Pseudokirchnerella subcapitata) (OECD 201)

2-benzylideneheptanal

NOEC chronic fish	0.169 mg/l/ 28 days (calculated value)
NOEC chronic crustacea	0.041 mg/l/ 21 days (Daphnia magna)(OECD 211 method)

Cineole

NOEC chronic crustacea	100 mg/l (Daphnia magna) (48 Hours) (OECD 202 method)
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1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (1506-02-1)

LC50 fish	1.49 mg/l/96h (Lepomis macrochirus) (OECD 204 method)
EC50 Daphnia	0.8 mg/l/72 h (Daphnia magna)(OECD 202 method)
ErC50 (algae)	0.835 mg/l/72 h (Pseudokirchneriella subcapitata)(OECD 201 method)
NOEC chronic fish	35 µg/l Danio rerio(OECD 210 method)
NOEC chronic algae	0.404 mg/l/72 h (Pseudokirchneriella subcapitata) (OECD 201 method)

2-phenylethanol (60-12-8)

LC50 fish	215 - 464 mg/l/96h Leuciscus idus (golden orfe)(DIN 38 412)
EC50 Daphnia	287.17 mg/l/48 h (EU Method C.2)(Daphnia magna)
ErC50 (algae)	1300 mg/l/72 h (Desmodesmus subspicatus)(DIN 38 412)
NOEC chronic algae	0.43 g/l (Desmodesmus subspicatus, 72h)(DIN 38 412)

12.2. Persistence and degradability

Linalool (78-70-6)

Persistence and degradability	Readily biodegradable. (OECD 301D method).
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Biodegradation	64.2 % 28days
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(R)-p-mentha-1,8-diene (5989-27-5)

Persistence and degradability	Readily biodegradable. (OECD 301D method).
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(-)-pin-2(10)-ene (127-91-3, 18172-67-3)

Persistence and degradability	Readily biodegradable.
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Geranyl acetate

Biodegradation	> 70 % 28 days
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2-phenylethanol (60-12-8)

Persistence and degradability	Readily biodegradable. (OECD 301B method).
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Biodegradation	106.3 % 28 days
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12.3. Bioaccumulative potential

Linalyl acetate (115-95-7)

Log Pow	3.9 (25°C)
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
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
Benzyl salicylate (118-58-1)	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
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
7-hydroxycitronellal (107-75-5)	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
(R)-p-mentha-1,8-diene (5989-27-5)	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
2-benzylideneheptanal (122-40-7)	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
Eugenol (97-53-0)	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
Citronellol (106-22-9)	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
Geranyl acetate (105-87-3)	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
(-)-pin-2(10)-ene (127-91-3, 18172-67-3)	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
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (1506-02-1)	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

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations. Do not discharge into drains or rivers.

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SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA
Special provision(s) applied : 375	Special provision(s) applied : 969	Special provision(s) applied : A197
14.1. UN number		
UN 3077	UN 3077	UN 3077
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((R)-p-mentha-1,8-diene ; 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((R)-p-mentha-1,8-diene ; 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)	Environmentally hazardous substance, solid, n.o.s. ((R)-p-mentha-1,8-diene ; 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)		

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP12, B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV, LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V13
Special provisions for carriage - Bulk (ADR)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	: 

Tunnel restriction code (ADR)
EAC code

: -
: 2Z

Transport by sea

Transport regulations (IMDG)	: Not subject (special provision N°335)
Special provisions (IMDG)	: 274, 335, 966, 967, 969

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Packing instructions (IMDG)	: P002, LP02
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
MFAG-No	: 171

Air transport

Transport regulations (IATA)	: Not subject (special provision A158 (335))
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG code (IATA)	: 9L

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

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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

Indication of changes:

This sheet was updated (refer to the date at the top of this page). SDS changed sections : 2.

Data sources : SDS of suppliers. IUCLID. TOXNET (Toxicology Data Network) (United States National Library of Medicine). ECHA - European Chemical Agency.

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), 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 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1

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Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
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.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Linalyl acetate(115-95-7), Benzyl salicylate(118-58-1), Linalool(78-70-6), 7-hydroxycitronellal(107-75-5), Nopyl acetate(128-51-8), α-hexylcinnamaldehyde(101-86-0), (R)-p-mentha-1,8-diene(5989-27-5), Coumarin(91-64-5), citral(5392-40-5), Geraniol(106-24-1), Cedryl acetate(77-54-3), Acetyl cedrene (32388-55-9), Eugenol(97-53-0), Caryophyllene(87-44-5), oct-1-en-3-yl acetate(2442-10-6), Citronellal(106-23-0), Citronellol(106-22-9), pin-2(3)-ene(80-56-8), Geranyl acetate(105-87-3), piperonal(120-57-0), (-)-pin-2(10)-ene(127-91-3, 18172-67-3), Cineole(470-82-6), Cinnamyl alcohol(104-54-1), p-Menthan-8-yl acetate(58985-18-5), isomenthone(491-07-6), Citronellyl formate(105-85-1). May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Aquatic Chronic 2	H411	Calculation method

SDS EU (REACH Annex II)

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.