

Good Sense Fruity Fresh Solo

Revision: 2024-10-22

Version: 01.0

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

1.1 Product identifier

Trade name: Good Sense Fruity Fresh Solo

1.2 Recommended use and restrictions on use

See product label.
For professional use only.

1.3 Details of the supplier of the safety data sheet

SOLENIS VIETNAM COMPANY LIMITED

Contact details

Level 4&5, M-Building, Lot C7B-02A, Block A, No.9 Street 8, Zone Saigon South New Urban Area, Tan Phu Ward, District 7, Ho Chi Minh City, VIETNAM
Tel. 0314996293

1.4 Emergency telephone number

In case of medical emergency, please seek professional medical advice.

SECTION 2: Composition/information on ingredients

2.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Classification	Weight percent
(E)-2-Benzylideneoctanal	165184-98-5	639-566-4	Acute toxicity - Oral, Category 5 (H303) Skin irritation, Category 3 (H316) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)	10-20
aluminium hydroxide	21645-51-2	244-492-7		10-20
linalyl acetate	115-95-7	204-116-4	Flammable liquids, Category 4 (H227) Skin irritation, Category 2 (H315) Eye irritation, Category 2A (H319) Acute aquatic toxicity, Category 3 (H402)	3-10
undecan-4-olide	104-67-6	203-225-4	Chronic aquatic toxicity, Category 2 (H411) Acute aquatic toxicity, Category 3 (H402)	3-10
d-limonene	5989-27-5	227-813-5	Flammable liquids, Category 3 (H226) Aspiration toxicity, Category 1 (H304) Acute toxicity - Oral, Category 5 (H303) Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	3-10
7-hydroxycitronellal	107-75-5	203-518-7	Eye irritation, Category 2A (H319) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 2 (H401)	3-10
4-tert-butylcyclohexyl acetate	32210-23-4	250-954-9	Acute toxicity - Oral, Category 5 (H303) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 2 (H401) Chronic aquatic toxicity, Category 2 (H411)	3-10
neryl acetate	141-12-8	205-459-2	Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 2 (H401)	3-10
eugenol	97-53-0	202-589-1	Eye irritation, Category 2A (H319) Skin sensitisation, Sub-category 1B (H317)	3-10
2-tert-butylcyclohexyl acetate	88-41-5	201-828-7	Flammable liquids, Category 4 (H227) Acute toxicity - Oral, Category 5 (H303) Skin irritation, Category 3 (H316) Acute aquatic toxicity, Category 2 (H401) Chronic aquatic toxicity, Category 2 (H411)	3-10
linalool	78-70-6	201-134-4	Flammable liquids, Category 4 (H227) Skin irritation, Category 2 (H315) Eye irritation, Category 2A (H319) Skin sensitisation, Sub-category 1B (H317)	3-10
geraniol	106-24-1	203-377-1	Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Skin sensitisation, Category 1 (H317) Acute aquatic toxicity, Category 3 (H402)	1-3
3,7-dimethyloctan-3-ol	78-69-3	201-133-9	Flammable liquids, Category 4 (H227) Skin irritation, Category 2 (H315) Eye irritation, Category 2A (H319)	1-3

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			Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 2 (H401)	
p-menth-1-en-8-ol	98-55-5	202-680-6	Flammable liquids, Category 4 (H227) Skin irritation, Category 2 (H315) Eye irritation, Category 2A (H319)	1-3
heptanal	111-71-7	203-898-4	Flammable liquids, Category 3 (H226) Skin irritation, Category 2 (H315) Acute aquatic toxicity, Category 2 (H401)	1-3
ethyl octanoate	106-32-1	203-385-5	Flammable liquids, Category 4 (H227) Skin irritation, Category 2 (H315)	1-3
citral	5392-40-5	226-394-6	Acute toxicity - Oral, Category 5 (H303) Skin irritation, Category 2 (H315) Eye irritation, Category 2A (H319) Skin sensitisation, Category 1 (H317) Acute aquatic toxicity, Category 2 (H401)	1-3
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5	204-846-3	Skin irritation, Category 2 (H315) Eye irritation, Category 2B (H320) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 2 (H401) Chronic aquatic toxicity, Category 2 (H411)	0.1-1
ethyl 2,3-epoxy-3-phenylbutyrate	77-83-8	201-061-8	Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 2 (H401) Chronic aquatic toxicity, Category 2 (H411)	0.1-1
3-p-cumenyl-2-methylpropionaldehyde	103-95-7	203-161-7	Flammable liquids, Category 4 (H227) Reproductive toxicity, Category 2 (H361) Acute toxicity - Oral, Category 5 (H303) Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 2 (H401) Chronic aquatic toxicity, Category 3 (H412)	0.1-1
citronellol	106-22-9	203-375-0	Acute toxicity - Oral, Category 5 (H303) Acute toxicity - Dermal, Category 5 (H313) Skin irritation, Category 2 (H315) Eye irritation, Category 2A (H319) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 2 (H401)	0.1-1
(-)-pin-2(3)-ene	7785-26-4	232-077-3	Flammable liquids, Category 3 (H226) Aspiration toxicity, Category 1 (H304) Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	0.1-1
pin-2(10)-ene	127-91-3	204-872-5	Flammable liquids, Category 3 (H226) Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	0.1-1

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.

SECTION 3: Hazards identification

3.1 Classification of the substance or mixture

Eye irritation, Category 2A
Skin irritation, Category 2
Skin sensitisation, Category 1
Acute aquatic toxicity, Category 2
Chronic aquatic toxicity, Category 2

3.2 Label elements



Signal word: Warning.

Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.
H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

P280 - Wear protective gloves.

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3.3 Other hazards

No other hazards known. Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General Information:	Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.
Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	No known effects or symptoms in normal use.
Skin contact:	Causes irritation. May cause an allergic skin reaction.
Eye contact:	Causes severe irritation.
Ingestion:	No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

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

Repeated or prolonged contact: Wear suitable gloves.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advice on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with skin and

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eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)
aluminium hydroxide	2.0 mg/m ³	4 mg/m ³

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection:

Hand protection:

No special requirements under normal use conditions.
 Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
 Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
 Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
 In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection:

Respiratory protection:

No special requirements under normal use conditions.
 No special requirements under normal use conditions.

Environmental exposure controls:

Should not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid

Colour: Clear , Pale , Yellow

Odour: Fruity

Odour threshold: Not applicable

pH: Not measured

Melting point/freezing point (°C): Not determined

Initial boiling point and boiling range (°C): Not determined

Method / remark

Not relevant to classification of this product
 Not applicable to solids or gases

Flammability (liquid): Not applicable.

Flash point (°C): Not applicable.

Sustained combustion: Not applicable.

(UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined

Flammability (solid, gas): Not determined

Lower and upper explosion limit/flammability limit (%): Not determined

Vapour pressure: Not determined

Relative density: ≈ 1.05 (20 °C)

Relative vapour density: No data available.

Not relevant to classification of this product
 (EC) 440/2008, A10-A11

OECD 109 (EU A.3)

Not applicable to solids

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Particle characteristics: Not determined.
Solubility in / Miscibility with water: Insoluble
Partition coefficient: n-octanol/water No information available.

Not relevant to classification of this product.

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Kinematic viscosity: Not applicable to solids or gases
Explosive properties: Not explosive. Vapours may form explosive mixtures with air.
Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined
Corrosion to metals: Not determined

Not applicable to solids or gases

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

Substance data, where relevant and available, are listed below:.

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
(E)-2-Benzylideneoctanal	LD ₅₀	3100	Rat	OECD 401 (EU B.1)	
aluminium hydroxide		No data available			
linalyl acetate		9000			
undecan-4-olide		No data available			
d-limonene	LD ₅₀	4400 - 5100	Rat	Method not given	
7-hydroxycitronellal		No data available			
4-tert-butylcyclohexyl acetate		3370	Rat	Method not given	
neryl acetate		No data available			
eugenol	LD ₅₀	> 2000			
2-tert-butylcyclohexyl acetate		No data available			
linalool	LD ₅₀	2790	Rat		
geraniol		No data			

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		available		
3,7-dimethyloctan-3-ol		8270		
p-menth-1-en-8-ol		No data available		
heptanal		No data available		
ethyl octanoate		No data available		
citral	LD ₅₀	> 2000		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		> 5000	Rat	
ethyl 2,3-epoxy-3-phenylbutyrate		No data available		
3-p-cumenyl-2-methylpropionaldehyde	LD ₅₀	> 3000		
citronellol		No data available		
(-)-pin-2(3)-ene		No data available		
pin-2(10)-ene		No data available		

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
(E)-2-Benzylideneoctanal	LD ₅₀	> 3000	Rabbit	OECD 402 (EU B.3)	
aluminium hydroxide		No data available			
linalyl acetate		No data available			
undecan-4-olide		No data available			
d-limonene	LD ₅₀	> 5000	Rabbit	Method not given	
7-hydroxycitronellal		No data available			
4-tert-butylcyclohexyl acetate		No data available			
neryl acetate		No data available			
eugenol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
linalool		No data available			
geraniol		No data available			
3,7-dimethyloctan-3-ol		No data available			
p-menth-1-en-8-ol		No data available			
heptanal		No data available			
ethyl octanoate		No data available			
citral		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
ethyl 2,3-epoxy-3-phenylbutyrate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellol		No data available			
(-)-pin-2(3)-ene		No data available			
pin-2(10)-ene		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(E)-2-Benzylideneoctanal	LC ₅₀	> 2.12 (mist)	Rat	OECD 403 (EU B.2)	4
aluminium hydroxide		No data available			
linalyl acetate		No data available			
undecan-4-olide		No data available			

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d-limonene		No data available			
7-hydroxycitronellal		No data available			
4-tert-butylcyclohexyl acetate		No data available			
neryl acetate		No data available			
eugenol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
linalool		No data available			
geraniol		No data available			
3,7-dimethyloctan-3-ol		No data available			
p-menth-1-en-8-ol		No data available			
heptanal		No data available			
ethyl octanoate		No data available			
citral		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
ethyl 2,3-epoxy-3-phenylbutyrate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellol		No data available			
(-)-pin-2(3)-ene		No data available			
pin-2(10)-ene		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(E)-2-Benzylideneoctanal	Irritant	Rabbit	OECD 404 (EU B.4)	4 hour(s)
aluminium hydroxide	No data available			
linalyl acetate	No data available			
undecan-4-olide	No data available			
d-limonene	Irritant	Rabbit	Method not given	
7-hydroxycitronellal	No data available			
4-tert-butylcyclohexyl acetate	No data available			
neryl acetate	No data available			
eugenol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
linalool	No data available			
geraniol	No data available			
3,7-dimethyloctan-3-ol	No data available			
p-menth-1-en-8-ol	No data available			
heptanal	No data available			
ethyl octanoate	No data available			
citral	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
ethyl 2,3-epoxy-3-phenylbutyrate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellol	No data available			
(-)-pin-2(3)-ene	No data available			
pin-2(10)-ene	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(E)-2-Benzylideneoctanal	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
aluminium hydroxide	No data available			

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linalyl acetate	No data available			
undecan-4-olide	No data available			
d-limonene	No data available			
7-hydroxycitronellal	No data available			
4-tert-butylcyclohexyl acetate	No data available			
neryl acetate	No data available			
eugenol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
linalool	No data available			
geraniol	No data available			
3,7-dimethyloctan-3-ol	No data available			
p-menth-1-en-8-ol	No data available			
heptanal	No data available			
ethyl octanoate	No data available			
citral	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
ethyl 2,3-epoxy-3-phenylbutyrate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellol	No data available			
(-)-pin-2(3)-ene	No data available			
pin-2(10)-ene	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(E)-2-Benzylideneoctanal	No data available			
aluminium hydroxide	No data available			
linalyl acetate	No data available			
undecan-4-olide	No data available			
d-limonene	No data available			
7-hydroxycitronellal	No data available			
4-tert-butylcyclohexyl acetate	No data available			
neryl acetate	No data available			
eugenol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
linalool	No data available			
geraniol	No data available			
3,7-dimethyloctan-3-ol	No data available			
p-menth-1-en-8-ol	No data available			
heptanal	No data available			
ethyl octanoate	No data available			
citral	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
ethyl 2,3-epoxy-3-phenylbutyrate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellol	No data available			
(-)-pin-2(3)-ene	No data available			
pin-2(10)-ene	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
(E)-2-Benzylideneoctanal	Sensitising	Mouse	OECD 429 (EU B.42)	
aluminium hydroxide	No data available			
linalyl acetate	No data available			
undecan-4-olide	No data available			
d-limonene	Sensitising	Guinea pig	Method not given	
7-hydroxycitronellal	No data available			
4-tert-butylcyclohexyl acetate	No data available			
neryl acetate	No data available			
eugenol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
linalool	No data available			
geraniol	No data available			
3,7-dimethyloctan-3-ol	No data available			

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p-menth-1-en-8-ol	No data available		
heptanal	No data available		
ethyl octanoate	No data available		
citral	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		
ethyl 2,3-epoxy-3-phenylbutyrate	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
citronellol	No data available		
(-)-pin-2(3)-ene	No data available		
pin-2(10)-ene	No data available		

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
(E)-2-Benzylideneoctanal	No data available			
aluminium hydroxide	No data available			
linalyl acetate	No data available			
undecan-4-olide	No data available			
d-limonene	No data available			
7-hydroxycitronellal	No data available			
4-tert-butylcyclohexyl acetate	No data available			
neryl acetate	No data available			
eugenol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
linalool	No data available			
geraniol	No data available			
3,7-dimethyloctan-3-ol	No data available			
p-menth-1-en-8-ol	No data available			
heptanal	No data available			
ethyl octanoate	No data available			
citral	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
ethyl 2,3-epoxy-3-phenylbutyrate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellol	No data available			
(-)-pin-2(3)-ene	No data available			
pin-2(10)-ene	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
(E)-2-Benzylideneoctanal	No data available		No data available	
aluminium hydroxide	No data available		No data available	
linalyl acetate	No data available		No data available	
undecan-4-olide	No data available		No data available	
d-limonene	No data available		No data available	
7-hydroxycitronellal	No data available		No data available	
4-tert-butylcyclohexyl acetate	No data available		No data available	
neryl acetate	No data available		No data available	
eugenol	No data available		No data available	
2-tert-butylcyclohexyl acetate	No data available		No data available	
linalool	No data available		No data available	
geraniol	No data available		No data available	
3,7-dimethyloctan-3-ol	No data available		No data available	
p-menth-1-en-8-ol	No data available		No data available	
heptanal	No data available		No data available	
ethyl octanoate	No data available		No data available	
citral	No data available		No data available	
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		No data available	
ethyl 2,3-epoxy-3-phenylbutyrate	No data available		No data available	
3-p-cumenyl-2-methylpropionaldehyde	No data available		No data available	
citronellol	No data available		No data available	
(-)-pin-2(3)-ene	No data available		No data available	

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pin-2(10)-ene	No data available		No data available	
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Carcinogenicity

Ingredient(s)	Effect
(E)-2-Benzylideneoctanal	No data available
aluminium hydroxide	No data available
linalyl acetate	No data available
undecan-4-olide	No data available
d-limonene	No data available
7-hydroxycitronellal	No data available
4-tert-butylcyclohexyl acetate	No data available
neryl acetate	No data available
eugenol	No data available
2-tert-butylcyclohexyl acetate	No data available
linalool	No data available
geraniol	No data available
3,7-dimethyloctan-3-ol	No data available
p-menth-1-en-8-ol	No data available
heptanal	No data available
ethyl octanoate	No data available
citral	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
ethyl 2,3-epoxy-3-phenylbutyrate	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
citronellol	No data available
(-)-pin-2(3)-ene	No data available
pin-2(10)-ene	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
(E)-2-Benzylideneoctanal			No data available				
aluminium hydroxide			No data available				
linalyl acetate			No data available				
undecan-4-olide			No data available				
d-limonene			No data available				
7-hydroxycitronellal			No data available				
4-tert-butylcyclohexyl acetate			No data available				
neryl acetate			No data available				
eugenol			No data available				
2-tert-butylcyclohexyl acetate			No data available				
linalool			No data available				
geraniol			No data available				
3,7-dimethyloctan-3-ol			No data available				
p-menth-1-en-8-ol			No data available				
heptanal			No data available				
ethyl octanoate			No data available				
citral			No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			No data available				
ethyl 2,3-epoxy-3-phenylbutyrate			No data available				
3-p-cumenyl-2-methylpropionaldehyde			No data available				
citronellol			No data available				

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(-)-pin-2(3)-ene			No data available				
pin-2(10)-ene			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
(E)-2-Benzylideneoctanal		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
undecan-4-olide		No data available				
d-limonene		No data available				
7-hydroxycitronellal		No data available				
4-tert-butylcyclohexyl acetate		No data available				
neryl acetate		No data available				
eugenol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
linalool		No data available				
geraniol		No data available				
3,7-dimethyloctan-3-ol		No data available				
p-menth-1-en-8-ol		No data available				
heptanal		No data available				
ethyl octanoate		No data available				
citral		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
ethyl 2,3-epoxy-3-phenylbutyrate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
citronellol		No data available				
(-)-pin-2(3)-ene		No data available				
pin-2(10)-ene		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
(E)-2-Benzylideneoctanal		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
undecan-4-olide		No data available				
d-limonene		No data available				
7-hydroxycitronellal		No data available				
4-tert-butylcyclohexyl acetate		No data available				
neryl acetate		No data available				
eugenol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
linalool		No data available				

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		available				
geraniol		No data available				
3,7-dimethyloctan-3-ol		No data available				
p-menth-1-en-8-ol		No data available				
heptanal		No data available				
ethyl octanoate		No data available				
citral		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
ethyl 2,3-epoxy-3-phenylbutyrate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
citronellol		No data available				
(-)-pin-2(3)-ene		No data available				
pin-2(10)-ene		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
(E)-2-Benzylideneoctanal		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
undecan-4-olide		No data available				
d-limonene		No data available				
7-hydroxycitronellal		No data available				
4-tert-butylcyclohexyl acetate		No data available				
neryl acetate		No data available				
eugenol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
linalool		No data available				
geraniol		No data available				
3,7-dimethyloctan-3-ol		No data available				
p-menth-1-en-8-ol		No data available				
heptanal		No data available				
ethyl octanoate		No data available				
citral		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
ethyl 2,3-epoxy-3-phenylbutyrate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
citronellol		No data available				
(-)-pin-2(3)-ene		No data available				
pin-2(10)-ene		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
(E)-2-Benzylideneoctanal			No data					

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al			available				
aluminium hydroxide			No data available				
linalyl acetate			No data available				
undecan-4-olide			No data available				
d-limonene			No data available				
7-hydroxycitronellal			No data available				
4-tert-butylcyclohexyl acetate			No data available				
neryl acetate			No data available				
eugenol			No data available				
2-tert-butylcyclohexyl acetate			No data available				
linalool			No data available				
geraniol			No data available				
3,7-dimethyloctan-3-ol			No data available				
p-menth-1-en-8-ol			No data available				
heptanal			No data available				
ethyl octanoate			No data available				
citral			No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			No data available				
ethyl 2,3-epoxy-3-phenylbutyrate			No data available				
3-p-cumenyl-2-methylpropionaldehyde			No data available				
citronellol			No data available				
(-)-pin-2(3)-ene			No data available				
pin-2(10)-ene			No data available				

STOT-single exposure

Ingredient(s)	Affected organ(s)
(E)-2-Benzylideneoctanal	No data available
aluminium hydroxide	No data available
linalyl acetate	No data available
undecan-4-olide	No data available
d-limonene	No data available
7-hydroxycitronellal	No data available
4-tert-butylcyclohexyl acetate	No data available
neryl acetate	No data available
eugenol	No data available
2-tert-butylcyclohexyl acetate	No data available
linalool	No data available
geraniol	No data available
3,7-dimethyloctan-3-ol	No data available
p-menth-1-en-8-ol	No data available
heptanal	No data available
ethyl octanoate	No data available
citral	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
ethyl 2,3-epoxy-3-phenylbutyrate	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
citronellol	No data available
(-)-pin-2(3)-ene	No data available
pin-2(10)-ene	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
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(E)-2-Benzylideneoctanal	No data available
aluminium hydroxide	No data available
linalyl acetate	No data available
undecan-4-olide	No data available
d-limonene	No data available
7-hydroxycitronellal	No data available
4-tert-butylcyclohexyl acetate	No data available
neryl acetate	No data available
eugenol	No data available
2-tert-butylcyclohexyl acetate	No data available
linalool	No data available
geraniol	No data available
3,7-dimethyloctan-3-ol	No data available
p-menth-1-en-8-ol	No data available
heptanal	No data available
ethyl octanoate	No data available
citral	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
ethyl 2,3-epoxy-3-phenylbutyrate	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
citronellol	No data available
(-)-pin-2(3)-ene	No data available
pin-2(10)-ene	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information**12.1 Toxicity**

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(E)-2-Benzylideneoctanal	LC ₅₀	1.7	<i>Pimephales promelas</i>	OECD 203, flow-through	96
aluminium hydroxide		No data available			
linalyl acetate	LC ₅₀	11	<i>Cyprinus carpio</i>	OECD 203, flow-through	96
undecan-4-olide		No data available			
d-limonene	LC ₅₀	0.72	<i>Pimephales promelas</i>	OECD 203 (EU C.1)	96
7-hydroxycitronellal		No data available			
4-tert-butylcyclohexyl acetate		No data available			
neryl acetate	LC ₅₀	6		QSAR	
eugenol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
linalool		No data available			
geraniol		No data available			
3,7-dimethyloctan-3-ol		No data available			
p-menth-1-en-8-ol	LC ₅₀	62	<i>Brachydanio rerio</i>	Read across	96
heptanal		No data available			
ethyl octanoate		No data available			

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citral		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
ethyl 2,3-epoxy-3-phenylbutyrate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellol		No data available			
(-)-pin-2(3)-ene		No data available			
pin-2(10)-ene		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(E)-2-Benzylideneoctanal	EC ₅₀	0.247	<i>Daphnia magna</i> Straus	OECD 202, flow-through	48
aluminium hydroxide		No data available			
linalyl acetate	EC ₅₀	59	<i>Daphnia</i>	OECD 202, static	48
undecan-4-olide	EC ₅₀	5.85	<i>Daphnia magna</i> Straus	OECD 202, static	48
d-limonene	EC ₅₀	0.36	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48
7-hydroxycitronellal		No data available			
4-tert-butylcyclohexyl acetate		No data available			
neryl acetate	EC ₅₀	9.06	<i>Daphnia magna</i> Straus	OECD 202, static	48
eugenol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
linalool		No data available			
geraniol		No data available			
3,7-dimethyloctan-3-ol		No data available			
p-menth-1-en-8-ol	EC ₅₀	73	<i>Daphnia magna</i> Straus	Read across	48
heptanal		No data available			
ethyl octanoate		No data available			
citral		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
ethyl 2,3-epoxy-3-phenylbutyrate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellol		No data available			
(-)-pin-2(3)-ene		No data available			
pin-2(10)-ene		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(E)-2-Benzylideneoctanal	EC ₅₀	> 0.065	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
aluminium hydroxide		No data available			
linalyl acetate	EC ₅₀	68	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
undecan-4-olide	EC ₅₀	7.218	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	72
d-limonene	E _r C ₅₀	150	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
7-hydroxycitronellal		No data			

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		available			
4-tert-butylcyclohexyl acetate		No data available			
neryl acetate	EC ₅₀	4.9		QSAR	
eugenol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
linalool		No data available			
geraniol		No data available			
3,7-dimethyloctan-3-ol		No data available			
p-menth-1-en-8-ol	E _b C ₅₀	17	Not specified	Read across	72
heptanal		No data available			
ethyl octanoate		No data available			
citral		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
ethyl 2,3-epoxy-3-phenylbutyrate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellol		No data available			
(-)-pin-2(3)-ene		No data available			
pin-2(10)-ene		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
(E)-2-Benzylideneoctanal		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
undecan-4-olide		No data available			
d-limonene		No data available			
7-hydroxycitronellal		No data available			
4-tert-butylcyclohexyl acetate		No data available			
neryl acetate		No data available			
eugenol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
linalool		No data available			
geraniol		No data available			
3,7-dimethyloctan-3-ol		No data available			
p-menth-1-en-8-ol		No data available			
heptanal		No data available			
ethyl octanoate		No data available			
citral		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
ethyl 2,3-epoxy-3-phenylbutyrate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellol		No data available			
(-)-pin-2(3)-ene		No data available			

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		available			
pin-2(10)-ene		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
(E)-2-Benzylideneoctanal		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
undecan-4-olide		No data available			
d-limonene		No data available			
7-hydroxycitronellal		No data available			
4-tert-butylcyclohexyl acetate		No data available			
neryl acetate		No data available			
eugenol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
linalool		No data available			
geraniol		No data available			
3,7-dimethyloctan-3-ol		No data available			
p-menth-1-en-8-ol		No data available			
heptanal		No data available			
ethyl octanoate		No data available			
citral		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
ethyl 2,3-epoxy-3-phenylbutyrate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellol		No data available			
(-)-pin-2(3)-ene		No data available			
pin-2(10)-ene		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
(E)-2-Benzylideneoctanal		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
undecan-4-olide		No data available				
d-limonene		No data available				
7-hydroxycitronellal		No data available				
4-tert-butylcyclohexyl acetate		No data available				
neryl acetate		No data available				
eugenol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
linalool		No data available				

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geraniol		No data available			
3,7-dimethyloctan-3-ol		No data available			
p-menth-1-en-8-ol		No data available			
heptanal		No data available			
ethyl octanoate		No data available			
citral		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
ethyl 2,3-epoxy-3-phenylbutyrate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellol		No data available			
(-)-pin-2(3)-ene		No data available			
pin-2(10)-ene		No data available			

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
(E)-2-Benzylideneoctanal	NOEC	0.063	<i>Daphnia magna</i>	OECD 211, flow-through	21 day(s)	
aluminium hydroxide		No data available				
linalyl acetate		No data available				
undecan-4-olide		No data available				
d-limonene		No data available				
7-hydroxycitronellal		No data available				
4-tert-butylcyclohexyl acetate		No data available				
neryl acetate		No data available				
eugenol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
linalool		No data available				
geraniol		No data available				
3,7-dimethyloctan-3-ol		No data available				
p-menth-1-en-8-ol		No data available				
heptanal		No data available				
ethyl octanoate		No data available				
citral		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
ethyl 2,3-epoxy-3-phenylbutyrate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
citronellol		No data available				
(-)-pin-2(3)-ene		No data available				
pin-2(10)-ene		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
(E)-2-Benzylideneoctanal	Activated sludge, aerobe	Oxygen depletion	97% in 28 day(s)	OECD 301F	Readily biodegradable
aluminium hydroxide					Not applicable (inorganic substance)
linalyl acetate				OECD 301F	Readily biodegradable
undecan-4-olide				OECD 301F	Readily biodegradable
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
7-hydroxycitronellal				OECD 301F	Readily biodegradable
4-tert-butylcyclohexyl acetate				OECD 301B	Readily biodegradable
neryl acetate		Oxygen depletion	90% in 28 day(s)	Read across	Readily biodegradable
eugenol					Readily biodegradable
2-tert-butylcyclohexyl acetate				Method not given	Not readily biodegradable.
linalool	Activated sludge, aerobe	Oxygen depletion	64.2% in 28 day(s)	OECD 301D	Readily biodegradable
geraniol				OECD 301F	Readily biodegradable
3,7-dimethyloctan-3-ol					Readily biodegradable
p-menth-1-en-8-ol				OECD 310	Readily biodegradable
heptanal		Oxygen depletion	> 63 <74% in 28 day(s)	OECD 301D	Readily biodegradable
ethyl octanoate	Activated sludge, aerobe	CO ₂ production	91.8% in 28 day(s)	OECD 301B	Readily biodegradable
citral				OECD 301F	Readily biodegradable
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one				OECD 301B	Not readily biodegradable.
ethyl 2,3-epoxy-3-phenylbutyrate					Not readily biodegradable.
3-p-cumenyl-2-methylpropionaldehyde				OECD 301B	Readily biodegradable
citronellol	Activated sludge, aerobe	CO ₂ production		OECD 301F	Readily biodegradable
(-)-pin-2(3)-ene		Oxygen depletion	68% in 28 day(s)	OECD 301D	Readily biodegradable
pin-2(10)-ene				Weight of evidence	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
(E)-2-Benzylideneoctanal	5.3	OECD 117		at 24 °C
aluminium hydroxide	No data available			
linalyl acetate	No data available			
undecan-4-olide	No data available			
d-limonene	No data available		High potential for bioaccumulation	
7-hydroxycitronellal	No data available			
4-tert-butylcyclohexyl acetate	No data available			
neryl acetate	No data available			

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eugenol	No data available		
2-tert-butylcyclohexyl acetate	No data available		
linalool	No data available		
geraniol	No data available		
3,7-dimethyloctan-3-ol	No data available		
p-menth-1-en-8-ol	No data available		
heptanal	No data available		
ethyl octanoate	No data available		
citral	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		
ethyl 2,3-epoxy-3-phenylbutyrate	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
citronellol	No data available		
(-)-pin-2(3)-ene	No data available		
pin-2(10)-ene	No data available		

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
(E)-2-Benzylideneoctanal	No data available				
aluminium hydroxide	No data available				
linalyl acetate	No data available				
undecan-4-olide	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
7-hydroxycitronellal	No data available				
4-tert-butylcyclohexyl acetate	No data available				
neryl acetate	No data available				
eugenol	No data available				
2-tert-butylcyclohexyl acetate	No data available				
linalool	No data available				
geraniol	No data available				
3,7-dimethyloctan-3-ol	No data available				
p-menth-1-en-8-ol	No data available				
heptanal	No data available				
ethyl octanoate	No data available				
citral	No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available				
ethyl 2,3-epoxy-3-phenylbutyrate	No data available				
3-p-cumenyl-2-methylpropionaldehyde	No data available				
citronellol	No data available				
(-)-pin-2(3)-ene	No data available				
pin-2(10)-ene	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
(E)-2-Benzylideneoctanal	No data available				
aluminium hydroxide	No data available				
linalyl acetate	No data available				
undecan-4-olide	No data available				
d-limonene	No data available				High potential for mobility in soil
7-hydroxycitronellal	No data available				
4-tert-butylcyclohexyl acetate	No data available				
neryl acetate	No data available				
eugenol	No data available				
2-tert-butylcyclohexyl acetate	No data available				
linalool	No data available				
geraniol	No data available				

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3,7-dimethyloctan-3-ol	No data available				
p-menth-1-en-8-ol	No data available				
heptanal	No data available				
ethyl octanoate	No data available				
citral	No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available				
ethyl 2,3-epoxy-3-phenylbutyrate	No data available				
3-p-cumenyl-2-methylpropionaldehyde	No data available				
citronellol	No data available				
(-)-pin-2(3)-ene	No data available				
pin-2(10)-ene	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

SECTION 14: Transport information**Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

14.1 UN number: 3077

14.2 UN proper shipping name:

Environmentally hazardous substance, solid, n.o.s. (dipentene)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 9

14.4 Packing group: III**14.5 Environmental hazards:**

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:**IMO/IMDG**

EmS: F-A, S-F

Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

• Decree 108/2008/NP-CP Circular No.: 04/2012/TT-BCT Regulations on the Classification and Labeling of Chemicals

SECTION 16: Other information

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The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS4800564**Version:** 01.0**Revision:** 2024-10-22**Abbreviations and acronyms:**

- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PNEC - Predicted No Effect Concentration
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- H226 - Flammable liquid and vapour.
- H227 - Combustible liquid.
- H303 - May be harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H316 - Causes mild skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H320 - Causes eye irritation.
- H361 - Suspected of damaging fertility or the unborn child.
- H400 - Very toxic to aquatic life.
- H402 - Harmful 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.

End of Safety Data Sheet