

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Good Sense Floral O3b

Revision: 2025-04-14

Version: 01.0

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

1.1 Product identifier

Trade name: Good Sense Floral O3b

UFI: 2UDH-U179-7009-CSR9

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

Product use:	Odor Control - Instant action. For professional use only.
Uses advised against:	Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_11_1

AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssebroeksedijk 2, 3542DN Utrecht], The Netherlands

Contact details

Diversey S.P.A.

Strada Statale 235, 26010 Bagnolo Cremasco (CR)

Tel: 039 959 1150, E-mail: info.italy@solenis.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible).

Bergamo - CAV Azienda Ospedaliera Papa Giovanni XXIII, Tel. 800.88.33.00

Firenze - CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica, Tel. (+39) 055.794.7819

Foggia - CAV "Azienda Ospedaliera Università di Foggia", Tel. 800.183.459

Milano - CAV Ospedale Niguarda, Tel. (+39) 02.66.1010.29

Napoli - CAV "Azienda Ospedaliera A. Cardarelli", Tel. (+39) 081.545.3333

Pavia - CAV Centro Nazionale di Informazione Tossicologica, Tel. (+39) 0382.24.444

Roma - CAV "Ospedale Pediatrico Bambino Gesù", Tel. (+39) 06.6859.3726

Roma - CAV Policlinico "A. Gemelli", Tel. (+39) 06.305.4343

Roma - CAV Policlinico "Umberto I", Tel. (+39) 06.4997.8000

Verona - CAV Centro antiveleni Veneto, Tel. 800.011.858.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Aerosols, Category 1 (H222)

Chronic aquatic toxicity, Category 3 (H412)

2.2 Label elements



Signal word: Danger.

Contains 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) (Methylchloroisothiazolinone, Methylisothiazolinone), 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (Tetramethyl Acetyloctahydronapthalenes), alpha-hexylcinnamaldehyde (Hexyl Cinnamal), hexyl salicylate (Hexyl Salicylate), nopyl acetate (Nopyl Acetate), 3-p-cumenyl-2-methylpropionaldehyde (Cyclamen Aldehyde)

Hazard statements:

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

EUH208 - May produce an allergic reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Further indications on the label:

Contains: preservative.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
butane	203-448-7	106-97-8	01-211947469 1-32	Flammable gases, Category 1 (H220) Compressed gas (H280)		20-30
propane	200-827-9	74-98-6	01-211948694 4-21	Flammable gases, Category 1 (H220) Compressed gas (H280)		3-10
isobutane	200-857-2	75-28-5	01-211948539 5-27	Flammable gases, Category 1 (H220) Compressed gas (H280)		0.1-1
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methyl-2-naphthyl)ethan-1-one	259-174-3	54464-57-2	01-211948998 9-04	Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317)		0.1-1
alpha-hexylcinnamaldehyde	202-983-3	101-86-0	01-211953309 2-50	Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)		0.1-1
nopyl acetate	204-891-9	128-51-8	01-211998232 2-38	Eye irritation, Category 2 (H319) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 3 (H412)		0.1-1
hexyl salicylate	228-408-6	6259-76-3	01-211963827 5-36	Skin irritation, Category 2 (H315) Skin sensitisation, Category 1 (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		0.1-1
3-p-cumenyl-2-methylpropionaldehyde	203-161-7	103-95-7	01-211997058 2-32	Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 3 (H412)		0.1-1
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	248-908-8	28219-61-6	01-211952922 4-45	Eye irritation, Category 2 (H319) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		0.1-1
allyl heptanoate	205-527-1	142-19-8	01-211948896 1-23	Acute toxicity - Inhalation, Category 3 (H331) Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Dermal, Category 4 (H312) Skin irritation, Category 2 (H315) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 3 (H412)		0.1-1
trimethyloctadecylammonium chloride	203-929-1	112-03-8	01-211997055 9-21	Acute toxicity - Dermal, Category 3 (H311) Skin corrosion, Category 1C (H314) Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		0.01-0.1
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	220-239-6 247-500-7	55965-84-9	[6]	Acute toxicity - Dermal, Category 2 (H310) Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 3 (H301) Skin corrosion, Category 1C (H314) EUH071 Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=100 (H400) Chronic aquatic toxicity, Category 1 M=100 (H410)		< 0.01

Specific concentration limits

5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1):

- Skin sensitisation, Category 1 (H317) >= 0.0015%
- Serious eye damage, Category 1 (H318) >= 0.6% > Eye irritation, Category 2 (H319) >= 0.06%
- Skin corrosion, Category 1C (H314) >= 0.6% > Skin irritation, Category 2 (H315) >= 0.06%

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

ATE, if available, are listed in section 11.

[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

SECTION 4: First aid measures

4.1 Description of first aid measures

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:	Rinse cautiously with water for several minutes. 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:	Direct contact can damage skin by freezing.
Eye contact:	Direct contact can damage the eye by freezing.
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

Cool endangered packaging with water spray jet.

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

No special measures required.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Absorb liquid components with liquid-binding material.

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:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50° C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Use non-sparking tools.

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 hands before breaks and at the end of workday. Do not breathe spray. 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. Keep away from heat and direct sunlight. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Seveso - Lower Tier requirements (tonnes): 150

Seveso - Upper Tier requirements (tonnes): 500

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)	Ceiling value(s)
butane		1000 ppm (AIDII) 2377 mg/m ³ (AIDII)	
propane	(AIDII)		
isobutane		1000 ppm (AIDII) 2377 mg/m ³ (AIDII)	

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values

Human exposure

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
nopyl acetate	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
trimethyloctadecylammonium chloride	-	-	-	2.83
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
nopyl acetate	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
trimethyloctadecylammonium chloride	-	-	0.11 mg/cm ² skin	4.7
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
nopyl acetate	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available

2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
trimethyloctadecylammonium chloride	-	-	0.06 mg/cm ² skin	2.83
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
nopyl acetate	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
trimethyloctadecylammonium chloride	-	-	-	3.32
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
nopyl acetate	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
trimethyloctadecylammonium chloride	-	-	-	0.98
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
nopyl acetate	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
trimethyloctadecylammonium chloride	0.001	0.000068	0.00037	0.48
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
nopyl acetate	No data available	No data available	No data available	No data available

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hexyl salicylate	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
trimethyloctadecylammonium chloride	9.27	0.927	7	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

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: Provide a good standard of general ventilation.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Spray application	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.
Hand protection: No special requirements under normal use conditions.
Body protection: No special requirements under normal use conditions.
Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided. Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical state: Aerosol

Colour: Translucent , Colourless

Odour: Product specific

Odour threshold: Not applicable

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

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

Not relevant to classification of this product
Not applicable as product is an aerosol

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
butane	No data available		
propane	No data available		
isobutane	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
alpha-hexylcinnamaldehyde	No data available		
nonyl acetate	No data available		
hexyl salicylate	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available		
allyl heptanoate	No data available		
trimethyloctadecylammonium chloride	235-249	OECD 103 (EU A.2)	
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available		

Method / remark

Flammability (solid, gas): Not determined

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Flammability (liquid): Not applicable. Not flammable.

Flash point (°C): Not applicable as product is an aerosol

Sustained combustion: Not applicable.

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

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

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

pH: No information available.

Kinematic viscosity: Not determined

Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
butane	No data available		
propane	No data available		
isobutane	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
alpha-hexylcinnamaldehyde	No data available		
nopyl acetate	No data available		
hexyl salicylate	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available		
allyl heptanoate	No data available		
trimethyloctadecylammonium chloride	No data available		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available		

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

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
butane	No data available		
propane	No data available		
isobutane	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
alpha-hexylcinnamaldehyde	No data available		
nopyl acetate	No data available		
hexyl salicylate	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available		
allyl heptanoate	No data available		
trimethyloctadecylammonium chloride	< 0	OECD 104 (EU A.4)	20
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	2.2	Weight of Evidence	25

Method / remark

Relative density: ≈ 0.82 (20 °C)

Relative vapour density: No data available.

Particle characteristics: No data available.

OECD 109 (EU A.3)
Not relevant to classification of this product
Not applicable to liquids.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Vapours may form explosive mixtures with air. Not explosive.

Oxidising properties: Not oxidising.

Corrosion to metals: Not corrosive

9.2.2 Other safety characteristics

No other relevant information available.

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 hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

ATE - Inhalatory, vapours (mg/l): >20

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)	ATE Oral (mg/kg)
butane		No data available				Not established
propane		No data available				Not established
isobutane		No data available				Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				Not established
alpha-hexylcinnamaldehyde		3100				Not established
nonyl acetate	LD ₅₀	> 2000		Method not given		2.3e+006
hexyl salicylate		No data available				Not established
3-p-cumenyl-2-methylpropionaldehyde	LD ₅₀	> 3000				3850
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				Not established
allyl heptanoate	LD ₅₀	218	Rat	Method not given		218
trimethyloctadecylammonium chloride	LD ₅₀	560.5	Rat	OECD 401 (EU B.1)	ECHA+RM02472 Clariant ESDS 2021	560.5
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LD ₅₀	64	Rat	Method not given		64

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
butane		No data available				Not established
propane		No data available				Not established
isobutane		No data available				Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				Not established
alpha-hexylcinnamaldehyde		No data available				Not established
nonyl acetate		No data available				Not established

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		available				
hexyl salicylate		No data available				Not established
3-p-cumenyl-2-methylpropionaldehyde		No data available				Not established
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				Not established
allyl heptanoate	LD ₅₀	810	Rabbit	Method not given		810
trimethyloctadecylammonium chloride	LD ₅₀	528	Rabbit	OECD 402 (EU B.3)		528
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LD ₅₀	87.12	Rabbit	Method not given		87.12

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
propane		No data available			
isobutane		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
nopyl acetate		No data available			
hexyl salicylate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
allyl heptanoate		No data available			
trimethyloctadecylammonium chloride		No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LC ₅₀	0.33	Rat		

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
butane	Not established	Not established	Not established	Not established
propane	Not established	Not established	Not established	Not established
isobutane	Not established	Not established	Not established	Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Not established	Not established	Not established	Not established
alpha-hexylcinnamaldehyde	Not established	Not established	Not established	Not established
nopyl acetate	Not established	Not established	Not established	Not established
hexyl salicylate	Not established	Not established	Not established	Not established
3-p-cumenyl-2-methylpropionaldehyde	Not established	Not established	Not established	Not established
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Not established	Not established	Not established	Not established
allyl heptanoate	Not established	Not established	2700	Not established
trimethyloctadecylammonium chloride	Not established	Not established	Not established	Not established
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Not established	0.33	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
propane	No data available			
isobutane	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
nopyl acetate	No data available			
hexyl salicylate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
allyl heptanoate	Not irritant			
trimethyloctadecylammonium chloride	Corrosive	Rabbit	OECD 404 (EU B.4)	4 hour(s)
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Corrosive		Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
propane	No data available			
isobutane	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
nopyl acetate	No data available			
hexyl salicylate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
allyl heptanoate	Not corrosive or irritant			
trimethyloctadecylammonium chloride	Severe damage			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
propane	No data available			
isobutane	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
nopyl acetate	No data available			
hexyl salicylate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
allyl heptanoate	No data available			
trimethyloctadecylammonium chloride	No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
butane	No data available			
propane	No data available			
isobutane	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
nopyl acetate	No data available			
hexyl salicylate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
allyl heptanoate	No data available			
trimethyloctadecylammonium chloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Sensitising	Guinea pig	Method not given OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
propane	No data available			
isobutane	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
nopyl acetate	No data available			
hexyl salicylate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
allyl heptanoate	No data available			
trimethyloctadecylammonium chloride	No data available			

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5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available			
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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
butane	No data available		No data available	
propane	No data available		No data available	
isobutane	No data available		No data available	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		No data available	
alpha-hexylcinnamaldehyde	No data available		No data available	
nopyl acetate	No data available		No data available	
hexyl salicylate	No data available		No data available	
3-p-cumenyl-2-methylpropionaldehyde	No data available		No data available	
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available		No data available	
allyl heptanoate	No data available		No data available	
trimethyloctadecylammonium chloride	No data available		No data available	
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No evidence for mutagenicity	Method not given	No data available	

Carcinogenicity

Ingredient(s)	Effect
butane	No data available
propane	No data available
isobutane	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
alpha-hexylcinnamaldehyde	No data available
nopyl acetate	No data available
hexyl salicylate	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available
allyl heptanoate	No data available
trimethyloctadecylammonium chloride	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
butane			No data available				
propane			No data available				
isobutane			No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available				
alpha-hexylcinnamaldehyde			No data available				
nopyl acetate			No data available				
hexyl salicylate			No data available				
3-p-cumenyl-2-methylpropionaldehyde			No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol			No data available				
allyl heptanoate			No data available				
trimethyloctadecylammonium chloride			No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)			No data available				No evidence for reproductive toxicity No evidence for teratogenic effects

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
butane		No data available				
propane		No data available				
isobutane		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
nopyl acetate		No data available				
hexyl salicylate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
allyl heptanoate		No data available				
trimethyloctadecylammonium chloride		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		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
butane		No data available				
propane		No data available				
isobutane		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
nopyl acetate		No data available				
hexyl salicylate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
allyl heptanoate		No data available				
trimethyloctadecylammonium chloride		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		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
butane		No data available				
propane		No data available				
isobutane		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
nopyl acetate		No data available				
hexyl salicylate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				

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2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
allyl heptanoate		No data available				
trimethyloctadecylammonium chloride		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		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
butane			No data available					
propane			No data available					
isobutane			No data available					
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available					
alpha-hexylcinnamaldehyde			No data available					
nopyl acetate			No data available					
hexyl salicylate			No data available					
3-p-cumenyl-2-methylpropionaldehyde			No data available					
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol			No data available					
allyl heptanoate			No data available					
trimethyloctadecylammonium chloride			No data available					
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
butane	No data available
propane	No data available
isobutane	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
alpha-hexylcinnamaldehyde	No data available
nopyl acetate	No data available
hexyl salicylate	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available
allyl heptanoate	No data available
trimethyloctadecylammonium chloride	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
butane	No data available
propane	No data available
isobutane	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
alpha-hexylcinnamaldehyde	No data available
nopyl acetate	No data available
hexyl salicylate	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available
allyl heptanoate	No data available
trimethyloctadecylammonium chloride	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and	No data available

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2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)

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.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

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)
butane		No data available			
propane		No data available			
isobutane		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	LC ₅₀	1.3	<i>Lepomis macrochirus</i>	OECD 203, semi-static	96
alpha-hexylcinnamaldehyde		No data available			
nopyl acetate	LC ₅₀	11.55	<i>Brachydanio rerio</i>	Method not given	96
hexyl salicylate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
allyl heptanoate	LC ₅₀	0.12	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
trimethyloctadecylammonium chloride	LC ₅₀	0.064	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LC ₅₀	0.28	<i>Lepomis macrochirus</i>	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
propane		No data available			
isobutane		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC ₅₀	1.38	<i>Daphnia</i>	OECD 202, semi-static	48
alpha-hexylcinnamaldehyde		No data available			
nopyl acetate	EC ₅₀	11.95	<i>Daphnia magna Straus</i>	Method not given	48
hexyl salicylate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
allyl heptanoate		No data available			
trimethyloctadecylammonium chloride	EC ₅₀	0.037	<i>Daphnia magna Straus</i>	OECD 202, static	48

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5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC ₅₀	0.126	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48
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Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
propane		No data available			
isobutane		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC ₅₀	> 2.6	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
alpha-hexylcinnamaldehyde		No data available			
nopyl acetate	EC ₅₀	7.11	<i>Pseudokirchneriella subcapitata</i>	Method not given	72
hexyl salicylate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
allyl heptanoate		No data available			
trimethyloctadecylammonium chloride	E _r C ₅₀	0.047	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	72
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC ₅₀	0.003	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
butane		No data available			
propane		No data available			
isobutane		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
nopyl acetate		No data available			
hexyl salicylate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
allyl heptanoate		No data available			
trimethyloctadecylammonium chloride		No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
butane		No data available			
propane		No data available			
isobutane		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
nopyl acetate		No data available			
hexyl salicylate		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			

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		available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
allyl heptanoate		No data available			
trimethyloctadecylammonium chloride		No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC ₂₀	0.97	Activated sludge	OECD 209	3 hour(s)

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
butane		No data available				
propane		No data available				
isobutane		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
nopyl acetate		No data available				
hexyl salicylate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
allyl heptanoate		No data available				
trimethyloctadecylammonium chloride	NOEC	0.032	<i>Pimephales promelas</i>	Method not given	28 day(s)	Lethal effects
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
butane		No data available				
propane		No data available				
isobutane		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
nopyl acetate		No data available				
hexyl salicylate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
allyl heptanoate		No data available				
trimethyloctadecylammonium chloride	NOEC	0.007	<i>Daphnia magna</i>	OECD 211	21 day(s)	Lethal effects
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

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

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
butane		No data available				
propane		No data available				
isobutane		No data available				

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1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
nonyl acetate		No data available				
hexyl salicylate		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
allyl heptanoate		No data available				
trimethyloctadecylammonium chloride		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity

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

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available			

Abiotic degradation - other processes, if available:

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Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
butane					Readily biodegradable
propane					Readily biodegradable
isobutane					Readily biodegradable
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					Not readily biodegradable.
alpha-hexylcinnamaldehyde					Not readily biodegradable.
nopyl acetate					Not readily biodegradable.
hexyl salicylate				OECD 301F	Readily biodegradable
3-p-cumenyl-2-methylpropionaldehyde				OECD 301B	Readily biodegradable
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol					Not readily biodegradable.
allyl heptanoate	Activated sludge, aerobe		40%	OECD 301D	Not readily biodegradable.
trimethyloctadecylammonium chloride	Activated sludge, aerobe	BOD removal	18% in 28 day(s)	OECD 301D	Not readily biodegradable.
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)					No data available

12.3 Bioaccumulative potentialPartition coefficient n-octanol/water (log K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
butane	No data available			
propane	No data available			
isobutane	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
nopyl acetate	No data available			
hexyl salicylate	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
allyl heptanoate	No data available			
trimethyloctadecylammonium chloride	3.61	OECD 107	No bioaccumulation expected	at pH 7
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-0.71 - +0.75	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
butane	No data available				
propane	No data available				
isobutane	No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl)	No data available				

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-2-naphthyl)ethan-1-one					
alpha-hexylcinnamaldehyde	No data available				
nonyl acetate	No data available				
hexyl salicylate	No data available				
3-p-cumenyl-2-methylpropionaldehyde	No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available				
allyl heptanoate	No data available				
trimethyloctadecylammonium chloride	70.8		QSAR		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	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
butane	No data available				
propane	No data available				
isobutane	No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available				
alpha-hexylcinnamaldehyde	No data available				
nonyl acetate	No data available				
hexyl salicylate	No data available				
3-p-cumenyl-2-methylpropionaldehyde	No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available				
allyl heptanoate	No data available				
trimethyloctadecylammonium chloride	No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 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.

European Waste Catalogue:

16 05 04* - gases in pressure containers (including halons) containing dangerous substances.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information

**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number or ID number:** 1950**14.2 UN proper shipping name:**

Aerosols

Aerosols

14.3 Transport hazard class(es):**Transport hazard class (and subsidiary risks):** 2.1**14.4 Packing group:****14.5 Environmental hazards:****Environmentally hazardous:** No**Marine pollutant:** No**14.6 Special precautions for user:** None known.**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.**Other relevant information:****ADR****Classification code:** 5F**Tunnel restriction code:** (D)**IMO/IMDG****EmS:** F-D, S-U

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

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

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Directive 75/324/EEC on aerosol dispensers
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.**Seveso - Classification:** P3a - FLAMMABLE AEROSOLS**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

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: MS1005440**Version:** 01.0**Revision:** 2025-04-14**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Abbreviations and acronyms:

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- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- 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
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H220 - Extremely flammable gas.
- H280 - Contains gas under pressure; may explode if heated.
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H310 - Fatal in contact with skin.
- H311 - Toxic in contact with skin.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H330 - Fatal if inhaled.
- H331 - Toxic if inhaled.
- 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.
- EUH071 - Corrosive to the respiratory tract.

End of Safety Data Sheet