



A Solenis Company

Good Sense Vert O3c

Revision: 2024-01-13

Version: 01.1

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

1.1 Product identifier

Trade name: Good Sense Vert O3c

UFI: QN9H-31PK-W000-W55W

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

Product use:

Odor Control - Continuous 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_4_1

AISE_SWED_PW_8a_2

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, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

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

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Aerosols, Category 1 (H222)

2.2 Label elements



Signal word: Danger.

Contains 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-Dimethyl-3-Cyclohexene Carboxaldehyde), alpha-hexylcinnamaldehyde (Hexyl Cinnamal)

Hazard statements:

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

EUH208 - May produce an allergic reaction.

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.

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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
ethanol	200-578-6	64-17-5	01-211945761 0-43	Flammable liquids, Category 2 (H225)		30-50
butane	203-448-7	106-97-8	01-211947469 1-32	Flammable gases, Category 1 (H220) Compressed gas (H280)		30-50
2-tert-butylcyclohexyl acetate	201-828-7	88-41-5	01-211997071 3-33	Chronic aquatic toxicity, Category 2 (H411)		1-3
Propan-2-ol	200-661-7	67-63-0	01-211945755 8-25	Flammable liquids, Category 2 (H225) Specific target organ toxicity - Single exposure, Category 3 (H336) Eye irritation, Category 2 (H319)		1-3
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	268-264-1	68039-49-6	01-211998238 4-28	Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 2 (H411)		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
allyl heptanoate	205-527-1	142-19-8	01-211948896 1-23	Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 3 (H412)		0.1-1

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

ATE, if available, are listed in section 11.

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. Sand. Alcohol-resistant foam. Do not use water.

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**

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No special measures required.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). Absorb liquid components with liquid-binding material. 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:

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.

Advices 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. Store in a closed container. Keep only in original packaging. Keep away from heat and direct sunlight.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Comah - Lower Tier requirements (tonnes): 150

Comah - 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)	UK - Long term value(s)	UK - Short term value(s)
ethanol	1000 ppm 1920 mg/m ³	3000 ppm 5760 mg/m ³
butane	600 ppm 1450 mg/m ³	750 ppm 1810 mg/m ³
Propan-2-ol	400 ppm 999 mg/m ³	500 ppm 1250 mg/m ³

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
ethanol	-	-	-	87
butane	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	26
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
alpha-hexylcinnamaldehyde	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

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)
ethanol	-	-	-	343
butane	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	888
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available	-	No data available	-
alpha-hexylcinnamaldehyde	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

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)
ethanol	-	-	-	206
butane	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	319
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available	-	No data available	-
alpha-hexylcinnamaldehyde	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

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
ethanol	1900	-	-	950
butane	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	500
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
alpha-hexylcinnamaldehyde	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

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
ethanol	950	-	-	114
butane	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	89
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
alpha-hexylcinnamaldehyde	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

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)
ethanol	0.96	0.79	2.75	580
butane	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
Propan-2-ol	140.9	140.9	140.9	2251
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
alpha-hexylcinnamaldehyde	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

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
ethanol	3.6	2.9	0.63	-
butane	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
Propan-2-ol	552	552	28	-
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
alpha-hexylcinnamaldehyde	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

8.2 Exposure controls

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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: 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
Manual transfer and dilution Spray application	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a
Manual transfer of product	AISE_SWED_PW_8a_2	PW	PROC 8a	60	ERC8a

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321 / EN 166).

Hand protection: No special requirements under normal use conditions.

Body protection: No special requirements under normal use conditions.

Respiratory protection: 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: Liquid	
Colour: Clear , Light , from Colourless to Yellow	
Odour: Product specific	
Odour threshold: Not applicable	
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
ethanol	78.4	Method not given	
butane	No data available		
2-tert-butylcyclohexyl acetate	No data available		
Propan-2-ol	82	Method not given	1013
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
alpha-hexylcinnamaldehyde	No data available		
allyl heptanoate	No data available		

	Method / remark
Flammability (solid, gas): Not applicable to liquids	
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	See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
Propan-2-ol	2	13

	Method / remark
Autoignition temperature: Not determined	

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Decomposition temperature: Not applicable.

pH: No information available.

Kinematic viscosity: Not determined

Solubility in / Miscibility with water: Not miscible or difficult to mix

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
ethanol	No data available		
butane	No data available		
2-tert-butylcyclohexyl acetate	No data available		
Propan-2-ol	Soluble	Method not given	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
alpha-hexylcinnamaldehyde	No data available		
allyl heptanoate	No data available		

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

Vapour pressure: Not determined

Method / remark
See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
ethanol	5800	Method not given	
butane	No data available		
2-tert-butylcyclohexyl acetate	No data available		
Propan-2-ol	4200	Method not given	20
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
alpha-hexylcinnamaldehyde	No data available		
allyl heptanoate	No data available		

Relative density: ≈ 0.82 (20 °C)

Relative vapour density: No data available.

Particle characteristics: No data available.

Method / remark
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 - Dermal (mg/kg): >2000

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)
ethanol	LD ₅₀	5000	Rat	OECD 401 (EU B.1)		Not established
butane		No data available				Not established
2-tert-butylcyclohexyl acetate		No data available				Not established
Propan-2-ol	LD ₅₀	5840	Rat	OECD 401 (EU B.1)		Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				400000
alpha-hexylcinnamaldehyde		3100				Not established
allyl heptanoate	LD ₅₀	218	Rat	Method not given		218

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
ethanol	LD ₅₀	> 10000	Rabbit	OECD 402 (EU B.3)		Not established
butane		No data available				Not established
2-tert-butylcyclohexyl acetate		No data available				Not established
Propan-2-ol	LD ₅₀	> 2000	Rabbit	Method not given		Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				500000
alpha-hexylcinnamaldehyde		No data available				Not established
allyl heptanoate	LD ₅₀	810	Rabbit	Method not given		810

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC ₅₀	> 1800	Rat	Non guideline test	4
butane		No data available			
2-tert-butylcyclohexyl acetate		No data available			
Propan-2-ol	LC ₅₀	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			

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)
ethanol	Not established	Not established	Not established	Not established
butane	Not established	Not established	Not established	Not established
2-tert-butylcyclohexyl acetate	Not established	Not established	Not established	Not established
Propan-2-ol	Not established	Not established	Not established	Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Not established	Not established	Not established	Not established
alpha-hexylcinnamaldehyde	Not established	Not established	Not established	Not established
allyl heptanoate	Not established	Not established	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	Not irritant	Rabbit	OECD 404 (EU B.4)	

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butane	No data available			
2-tert-butylcyclohexyl acetate	No data available			
Propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	Not irritant			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	Irritant	Rabbit	OECD 405 (EU B.5)	
butane	No data available			
2-tert-butylcyclohexyl acetate	No data available			
Propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	Not corrosive or irritant			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
butane	No data available			
2-tert-butylcyclohexyl acetate	No data available			
Propan-2-ol	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
ethanol	Not sensitising			
butane	No data available			
2-tert-butylcyclohexyl acetate	No data available			
Propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
butane	No data available			
2-tert-butylcyclohexyl acetate	No data available			
Propan-2-ol	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	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)
ethanol	No data available		No data available	
butane	No data available		No data available	
2-tert-butylcyclohexyl acetate	No data available		No data available	
Propan-2-ol	No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		No data available	
alpha-hexylcinnamaldehyde	No data available		No data available	
allyl heptanoate	No data available		No data available	

Carcinogenicity

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Ingredient(s)	Effect
ethanol	No data available
butane	No data available
2-tert-butylcyclohexyl acetate	No data available
Propan-2-ol	No evidence for carcinogenicity, negative test results
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
alpha-hexylcinnamaldehyde	No data available
allyl heptanoate	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
ethanol			No data available				
butane			No data available				
2-tert-butylcyclohexyl acetate			No data available				
Propan-2-ol			No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde			No data available				
alpha-hexylcinnamaldehyde			No data available				
allyl heptanoate			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
ethanol		No data available				
butane		No data available				
2-tert-butylcyclohexyl acetate		No data available				
Propan-2-ol		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		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
ethanol		No data available				
butane		No data available				
2-tert-butylcyclohexyl acetate		No data available				
Propan-2-ol		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		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
ethanol		No data available				
butane		No data available				
2-tert-butylcyclohexyl acetate		No data available				
Propan-2-ol		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				

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alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		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
ethanol			No data available					
butane			No data available					
2-tert-butylcyclohexyl acetate			No data available					
Propan-2-ol			No data available					
2,4-dimethylcyclohex-3-ene-1-carbaldehyde			No data available					
alpha-hexylcinnamaldehyde			No data available					
allyl heptanoate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
butane	No data available
2-tert-butylcyclohexyl acetate	No data available
Propan-2-ol	Central nervous system
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
alpha-hexylcinnamaldehyde	No data available
allyl heptanoate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
butane	No data available
2-tert-butylcyclohexyl acetate	No data available
Propan-2-ol	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
alpha-hexylcinnamaldehyde	No data available
allyl heptanoate	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.

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)
ethanol	LC ₅₀	8150	<i>Alburnus alburnus</i>	Method not given	96
butane		No data available			

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2-tert-butylcyclohexyl acetate		No data available			
Propan-2-ol	LC ₅₀	> 100	<i>Pimephales promelas</i>	Method not given	48
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate	LC ₅₀	0.12	<i>Brachydanio rerio</i>	OECD 203, semi-static	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC ₅₀	5012	<i>Daphnia magna Straus</i>	Method not given	48
butane		No data available			
2-tert-butylcyclohexyl acetate		No data available			
Propan-2-ol	EC ₅₀	> 100	<i>Daphnia magna Straus</i>	Method not given	48
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC ₅₀	675	<i>Scenedesmus quadricauda</i> <i>Not specified</i>	Method not given	72
butane		No data available			
2-tert-butylcyclohexyl acetate		No data available			
Propan-2-ol	EC ₅₀	> 100	<i>Scenedesmus quadricauda</i>	Method not given	72
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
ethanol		No data available			
butane		No data available			
2-tert-butylcyclohexyl acetate		No data available			
Propan-2-ol		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
ethanol	EC ₀	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
butane		No data available			
2-tert-butylcyclohexyl acetate		No data available			
Propan-2-ol	EC ₅₀	> 1000	<i>Activated sludge</i>	Method not given	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			

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alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
ethanol		No data available				
butane		No data available				
2-tert-butylcyclohexyl acetate		No data available				
Propan-2-ol		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
ethanol		No data available				
butane		No data available				
2-tert-butylcyclohexyl acetate		No data available				
Propan-2-ol		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		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
ethanol		No data available				
butane		No data available				
2-tert-butylcyclohexyl acetate		No data available				
Propan-2-ol		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		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
Propan-2-ol		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		No data available				

Terrestrial toxicity - birds, if available:

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Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		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
Propan-2-ol	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
Propan-2-ol	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
Propan-2-ol		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
ethanol	Activated sludge, aerobe	Oxygen depletion	> 60% in 10 day(s)	OECD 301B	Readily biodegradable
butane					Readily biodegradable
2-tert-butylcyclohexyl acetate				Method not given	Not readily biodegradable.
Propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
2,4-dimethylcyclohex-3-ene-1-carbaldehyde			3% in 28 day(s)	OECD 301F	Not readily biodegradable.
alpha-hexylcinnamaldehyde					Not readily biodegradable.
allyl heptanoate	Activated sludge, aerobe		40%	OECD 301D	Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
Propan-2-ol					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
Propan-2-ol					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
ethanol	-0.31	Weight of evidence	No bioaccumulation expected	
butane	No data available			
2-tert-butylcyclohexyl acetate	No data available			
Propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			

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Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
ethanol	0.5		Weight of evidence	No bioaccumulation expected	
butane	No data available				
2-tert-butylcyclohexyl acetate	No data available				
Propan-2-ol	No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available				
alpha-hexylcinnamaldehyde	No data available				
allyl heptanoate	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
ethanol	No data available				
butane	No data available				
2-tert-butylcyclohexyl acetate	No data available				
Propan-2-ol	No data available				Potential for mobility in soil, soluble in water
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available				
alpha-hexylcinnamaldehyde	No data available				
allyl heptanoate	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.

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

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.

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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. According to special provision 190, aerosols with a capacity not exceeding 50ml containing only non-toxic constituents are not subject to the requirements of ADR or the provisions of the IMDG code.

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

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- 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.

Comah - 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: MS1005396

Version: 01.1

Revision: 2024-01-13

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 3, 8, 16

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:

- 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.
- H222 - Extremely flammable aerosol.
- H223 - Flammable aerosol.
- H225 - Highly flammable liquid and vapour.
- H280 - Contains gas under pressure; may explode if heated.
- H301 - Toxic if swallowed.
- H311 - Toxic in contact with skin.
- H315 - Causes skin irritation.

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- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet