



Good Sense Vert QuattroSelect O1a

Revision: 2022-09-26

Version: 07.0

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

1.1 Product identifier

Trade name: Good Sense Vert QuattroSelect O1a

UFI: DHK6-D0PN-500Q-CJHF

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

Product use: Hard surface cleaner.
For professional use only.

Uses advised against: Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8b_2
AISE_SWED_PW_10_1
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, Maarssebroeksedijk 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

Eye Irrit. 2 (H319)
Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Warning.

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

Hazard statements:

H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.
EUH208 - May produce an allergic reaction.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P501 - Dispose of unused content as chemical waste.

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
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		10-20
sulphonic acids, C14-17-sec-alkane, sodium salts	307-055-2	97489-15-1	01-2119489924-20	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10
2-tert-butylcyclohexyl acetate	201-828-7	88-41-5	01-2119970713-33	Aquatic Chronic 2 (H411)		3-10
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	268-264-1	68039-49-6	01-2119982384-28	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)		0.1-1
alpha-hexylcinnamaldehyde	202-983-3	101-86-0	01-2119533092-50	Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		0.1-1
allyl heptanoate	205-527-1	142-19-8	01-2119488961-23	Acute Tox. 3 (H331) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)		0.1-1
1,2-benzisothiazol-3(2H)-one	220-120-9	2634-33-5	[6]	Acute Tox. 2 (H330) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		< 0.01
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 Tox. 2 (H310) Acute Tox. 2 (H330) Acute Tox. 3 (H301) Skin Corr. 1C (H314) EUH071 Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 M=100 (H400) Aquatic Chronic 1 M=100 (H410)		< 0.01

Specific concentration limits

sulphonic acids, C14-17-sec-alkane, sodium salts:

- Eye Dam. 1 (H318) >= 15% > Eye Irrit. 2 (H319) >= 10%

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 Sens. 1 (H317) >= 0.0015%
- Eye Dam. 1 (H318) >= 0.6% > Eye Irrit. 2 (H319) >= 0.06%
- Skin Corr. 1C (H314) >= 0.6% > Skin Irrit. 2 (H315) >= 0.06%

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

ATE, if available, are listed in section 11.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

[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:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Rinse

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cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.
Skin contact: No known effects or symptoms in normal use.
Eye contact: Causes severe irritation.
Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

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

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

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

No special measures required.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

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

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

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

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. Avoid contact with eyes. 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. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

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
alkyl alcohol ethoxylate	-	-	-	-
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	7.1
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
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
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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)
alkyl alcohol ethoxylate	-	-	-	-
sulphonic acids, C14-17-sec-alkane, sodium salts	2.8 mg/cm ² skin	-	2.8 mg/cm ² skin	5
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
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
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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)
alkyl alcohol ethoxylate	-	-	-	-
sulphonic acids, C14-17-sec-alkane, sodium salts	2.8 mg/cm ² skin	-	2.8 mg/cm ² skin	3.57
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
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
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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
alkyl alcohol ethoxylate	-	-	-	-
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	35
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
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
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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
alkyl alcohol ethoxylate	-	-	-	-
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	12.4
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
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
1,2-benzisothiazol-3(2H)-one	-	-	-	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and	-	-	-	-

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2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)				
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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)
alkyl alcohol ethoxylate	-	-	-	-
sulphonic acids, C14-17-sec-alkane, sodium salts	0.04	0.004	0.06	600
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
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
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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)
alkyl alcohol ethoxylate	-	-	-	-
sulphonic acids, C14-17-sec-alkane, sodium salts	9.4	0.94	9.4	-
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
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
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Automatic transfer and dilution	AISE_SWED_PW_8b_2	PW	PROC 8b	60	ERC8b

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 166).

Hand protection: No special requirements under normal use conditions.

Body protection: No special requirements under normal use conditions.

Respiratory protection: No special requirements under normal use conditions.

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 1.3

Appropriate engineering controls: Provide a good standard of general ventilation.
Appropriate organisational controls: No special requirements under normal use conditions.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
Manual application by brushing, wiping or mopping	AISE_SWED_PW_10_1	PW	PROC 10	480	ERC8a
Spray application	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a

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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: 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

Physical state: Liquid	Method / remark
Colour: Clear , Green	
Odour: Characteristic	
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)
alkyl alcohol ethoxylate	> 200	Method not given	
sulphonic acids, C14-17-sec-alkane, sodium salts	> 100	Method not given	
2-tert-butylcyclohexyl acetate	No data available		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
alpha-hexylcinnamaldehyde	No data available		
allyl heptanoate	No data available		
1,2-benzisothiazol-3(2H)-one	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		

Flammability (solid, gas): Not applicable to liquids	Method / remark
Flammability (liquid): Not flammable.	
Flash point (°C): > 60 °C	Weight of evidence
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:

Autoignition temperature: Not determined	Method / remark
Decomposition temperature: Not applicable.	
pH: ≈ 8 (neat)	ISO 4316
Dilution pH: ≈ 7 (1.3 %)	ISO 4316
Kinematic viscosity: Not determined	
Solubility in / Miscibility with water: Fully miscible	

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
alkyl alcohol ethoxylate	Soluble	Method not given	20
sulphonic acids, C14-17-sec-alkane, sodium salts	500	Method not given	25
2-tert-butylcyclohexyl acetate	No data available		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
alpha-hexylcinnamaldehyde	No data available		
allyl heptanoate	No data available		
1,2-benzisothiazol-3(2H)-one	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

Vapour pressure: Not determined	Method / remark
	See substance data

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Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyl alcohol ethoxylate	Negligible	Method not given	20-25
sulphonic acids, C14-17-sec-alkane, sodium salts	3000	Method not given	25
2-tert-butylcyclohexyl acetate	No data available		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
alpha-hexylcinnamaldehyde	No data available		
allyl heptanoate	No data available		
1,2-benzisothiazol-3(2H)-one	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		

Relative density: ≈ 1.01 (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: 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 toxicological effects**

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000
 ATE - Inhalatory, vapours (mg/l): >20

Eye irritation and corrosivity

Result: Eye irritant 2 **Method:** Weight of evidence

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 (mg/kg)
alkyl alcohol ethoxylate	LD ₅₀	> 300-2000	Rat	OECD 423 (EU B.1 tris)		3800
sulphonic acids, C14-17-sec-alkane, sodium salts	LD ₅₀	> 500-2000	Rat	OECD 401 (EU B.1)		9600
2-tert-butylcyclohexyl acetate		No data				Not established

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		available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				250000
alpha-hexylcinnamaldehyde		3100				Not established
allyl heptanoate		No data available				120000
1,2-benzisothiazol-3(2H)-one	LD ₅₀	> 2000	Rat			1e+007
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		3.7e+007

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
alkyl alcohol ethoxylate	LD ₅₀	> 2000	Rabbit	Method not given		Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	LD ₅₀	> 2000	Mouse	Weight of evidence		Not established
2-tert-butylcyclohexyl acetate		No data available				Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				310000
alpha-hexylcinnamaldehyde		No data available				Not established
allyl heptanoate		No data available				270000
1,2-benzisothiazol-3(2H)-one	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)		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)	LD ₅₀	87.12	Rabbit	Method not given		2.9e+007

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			
2-tert-butylcyclohexyl acetate		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			
1,2-benzisothiazol-3(2H)-one		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)
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	Not established	Not established	Not established	Not established
2-tert-butylcyclohexyl acetate	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	17000	Not established
1,2-benzisothiazol-3(2H)-one	Not established	1000	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	110000	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sulphonic acids, C14-17-sec-alkane, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4) Read across	
2-tert-butylcyclohexyl acetate	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			
1,2-benzisothiazol-3(2H)-one	Corrosive		Method not given	
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
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
sulphonic acids, C14-17-sec-alkane, sodium salts	Severe damage		OECD 405 (EU B.5)	
2-tert-butylcyclohexyl acetate	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			
1,2-benzisothiazol-3(2H)-one	Severe damage		Method not given	
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
alkyl alcohol ethoxylate	No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			
2-tert-butylcyclohexyl acetate	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			
1,2-benzisothiazol-3(2H)-one	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)
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
sulphonic acids, C14-17-sec-alkane, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT Read across	
2-tert-butylcyclohexyl acetate	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			
1,2-benzisothiazol-3(2H)-one	Sensitising	Guinea pig		
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
alkyl alcohol ethoxylate	No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			
2-tert-butylcyclohexyl acetate	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			
1,2-benzisothiazol-3(2H)-one	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			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
alkyl alcohol ethoxylate	No evidence of genotoxicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	Method not given
2-tert-butylcyclohexyl acetate	No data available		No data available	
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	
1,2-benzisothiazol-3(2H)-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	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	

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Carcinogenicity

Ingredient(s)	Effect
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for carcinogenicity, negative test results
2-tert-butylcyclohexyl acetate	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
alpha-hexylcinnamaldehyde	No data available
allyl heptanoate	No data available
1,2-benzisothiazol-3(2H)-one	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
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards
sulphonic acids, C14-17-sec-alkane, sodium salts			No data available				No evidence for reproductive toxicity
2-tert-butylcyclohexyl acetate			No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde			No data available				
alpha-hexylcinnamaldehyde			No data available				
allyl heptanoate			No data available				
1,2-benzisothiazol-3(2H)-one			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
alkyl alcohol ethoxylate		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOAEL	200	Rat	Method not given		
2-tert-butylcyclohexyl acetate		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		No data available				
1,2-benzisothiazol-3(2H)-one		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
alkyl alcohol ethoxylate		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		No data available				
1,2-benzisothiazol-3(2H)-one		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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Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol ethoxylate		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		No data available				
1,2-benzisothiazol-3(2H)-one		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
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)	Effects on organ weights	
sulphonic acids, C14-17-sec-alkane, sodium salts	Oral	NOAEL	> 4000	Rat	Method not given			
2-tert-butylcyclohexyl acetate			No data available					
2,4-dimethylcyclohex-3-ene-1-carbaldehyde			No data available					
alpha-hexylcinnamaldehyde			No data available					
allyl heptanoate			No data available					
1,2-benzisothiazol-3(2H)-one			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)
alkyl alcohol ethoxylate	Not applicable
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available
2-tert-butylcyclohexyl acetate	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
alpha-hexylcinnamaldehyde	No data available
allyl heptanoate	No data available
1,2-benzisothiazol-3(2H)-one	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)
alkyl alcohol ethoxylate	Not applicable
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available
2-tert-butylcyclohexyl acetate	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
alpha-hexylcinnamaldehyde	No data available
allyl heptanoate	No data available
1,2-benzisothiazol-3(2H)-one	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

Aspiration hazard

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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)
alkyl alcohol ethoxylate	LC ₅₀	1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
sulphonic acids, C14-17-sec-alkane, sodium salts	LC ₅₀	1 - 10	<i>Brachydanio rerio</i>	OECD 203, static	96
2-tert-butylcyclohexyl acetate		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			
1,2-benzisothiazol-3(2H)-one	LC ₅₀	2.18	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.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)	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)
alkyl alcohol ethoxylate	EC ₅₀	1 - 10	<i>Daphnia magna</i> Straus	OECD 202, static	48
sulphonic acids, C14-17-sec-alkane, sodium salts	EC ₅₀	9.81	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48
2-tert-butylcyclohexyl acetate		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			
1,2-benzisothiazol-3(2H)-one	EC ₅₀	2.94	<i>Daphnia</i>	OECD 202 (EU C.2)	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)	EC ₅₀	0.126	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC ₅₀	1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
sulphonic acids, C14-17-sec-alkane, sodium salts	EC ₅₀	> 61	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
2-tert-butylcyclohexyl acetate		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			
1,2-benzisothiazol-3(2H)-one	E _r C ₅₀	0.11		OECD 201 (EU C.3)	72

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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	0.003	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
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Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol ethoxylate		No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			
2-tert-butylcyclohexyl acetate		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			
1,2-benzisothiazol-3(2H)-one		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
alkyl alcohol ethoxylate	EC ₁₀	> 10000	<i>Activated sludge</i>	DIN 38412 / Part 8	17 hour(s)
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	600	<i>Pseudomonas putida</i>	DIN 38412 / Part 8	16 hour(s)
2-tert-butylcyclohexyl acetate		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate		No data available			
1,2-benzisothiazol-3(2H)-one	EC ₂₀	3.3	<i>Activated sludge</i>	OECD 209	3 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)	EC ₂₀	0.97	<i>Activated sludge</i>	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
alkyl alcohol ethoxylate		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	0.85	<i>Oncorhynchus mykiss</i>	OECD 204	28 day(s)	
2-tert-butylcyclohexyl acetate		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		No data available				
1,2-benzisothiazol-3(2H)-one		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				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	0.36	<i>Daphnia magna</i>	OECD 202	22 day(s)	
2-tert-butylcyclohexyl acetate		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				
1,2-benzisothiazol-3(2H)-one		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				

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
alkyl alcohol ethoxylate		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
alpha-hexylcinnamaldehyde		No data available				
allyl heptanoate		No data available				
1,2-benzisothiazol-3(2H)-one		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
alkyl alcohol ethoxylate	NOEC	220	<i>Eisenia fetida</i>			
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	470	<i>Eisenia fetida</i>	OECD 222	56	
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
alkyl alcohol ethoxylate	NOEC	10	<i>Lepidium sativum</i>	OECD 208		
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

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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:

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
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO ₂ production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
sulphonic acids, C14-17-sec-alkane, sodium salts	Activated sludge, aerobe	DOC reduction	89 % in 28 day(s)	OECD 301E	Readily biodegradable
2-tert-butylcyclohexyl acetate				Method not given	Not 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.
1,2-benzisothiazol-3(2H)-one	Adapted activated sludge	CO ₂ production	62% in 4 day(s)	OECD 301C	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
1,2-benzisothiazol-3(2H)-one	Sewage treatment plant simulation	Primary degradation	> 90%	OECD 303A	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)					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol ethoxylate	4.09	QSAR	No bioaccumulation expected	
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available		No bioaccumulation expected	
2-tert-butylcyclohexyl acetate	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	No data available			
1,2-benzisothiazol-3(2H)-one	0.7	OECD 107	No bioaccumulation expected	
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	

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Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol ethoxylate	-			No bioaccumulation expected	
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				
2-tert-butylcyclohexyl acetate	No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available				
alpha-hexylcinnamaldehyde	No data available				
allyl heptanoate	No data available				
1,2-benzisothiazol-3(2H)-one	6.95		OECD 305		
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
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				
2-tert-butylcyclohexyl acetate	No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available				
alpha-hexylcinnamaldehyde	No data available				
allyl heptanoate	No data available				
1,2-benzisothiazol-3(2H)-one	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:

20 01 29* - detergents 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 informationLand transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

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)
- Regulation (EC) 648/2004 - Detergents regulation (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.

Ingredients according to Detergents Regulation

non-ionic surfactants, anionic surfactants 5 - 15 %
 perfumes , Hexyl Cinnamal, Phenoxyethanol, Benzisothiazolinone, Methylchloroisothiazolinone, Methylisothiazolinone

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Comah - classification: Not classified

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: MSDS7310

Version: 07.0

Revision: 2022-09-26

Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 1, 3, 6, 8, 9, 11, 12, 15, 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.

Full text of the H and EUH phrases mentioned in section 3:

- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H310 - Fatal 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.
- 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.

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

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- 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

End of Safety Data Sheet