



## Good Sense Vert QuattroSelect O1a

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### 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.

#### 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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	931-329-6	-	01-2119490100-53	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)		1-3
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 (H301) Acute Tox. 3 (H311) 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 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

## Good Sense Vert QuattroSelect O1a

**Self-protection of first aider:** person. Get medical attention or advice if you feel unwell.  
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**

Wear eye/face protection.

**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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	-	-	-	6.25
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 <sup>2</sup> skin	-	2.8 mg/cm <sup>2</sup> skin	5
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	-	-	0.09 mg/cm <sup>2</sup> skin	4.16
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 <sup>2</sup> skin	-	2.8 mg/cm <sup>2</sup> skin	3.57
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	No data available	-	0.056 mg/cm <sup>2</sup> skin	2.5
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/m<sup>3</sup>)

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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	-	-	-	73.4
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/m<sup>3</sup>)

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

## Good Sense Vert QuattroSelect O1a

amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	-	-	-	21.73
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**

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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	0.007	0.0007	0.024	830
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 <sup>3</sup> )
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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	0.0424	-	0.0189	-
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.

## Good Sense Vert QuattroSelect O1a

**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

**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

	Method / remark
<b>Physical state:</b> Liquid	
<b>Colour:</b> Clear , Green	
<b>Odour:</b> Characteristic	
<b>Odour threshold:</b> Not applicable	
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> 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		
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	> 100	Method not given	
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		

	Method / remark
<b>Flammability (solid, gas):</b> Not applicable to liquids	
<b>Flammability (liquid):</b> Not flammable.	
<b>Flash point (°C):</b> > 60 °C	Weight of evidence
<b>Sustained combustion:</b> Not applicable. ( UN Manual of Tests and Criteria, section 32, L.2 )	
<b>Lower and upper explosion limit/flammability limit (%):</b> Not determined	

Substance data, flammability or explosive limits, if available:

	Method / remark
<b>Autoignition temperature:</b> Not determined	
<b>Decomposition temperature:</b> Not applicable.	
<b>pH:</b> ≈ 8 (neat)	ISO 4316
<b>Dilution pH:</b> ≈ 7 (1.3 %)	ISO 4316
<b>Kinematic viscosity:</b> Not determined	
<b>Solubility in / Miscibility with water:</b> 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		
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	0.015-0.030	Method not given	20

## Good Sense Vert QuattroSelect O1a

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

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		
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	0.00014	Method not given	20
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 - Dermal (mg/kg): &gt;2000

**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 <sub>50</sub>	> 300-2000	Rat	OECD 423 (EU B.1 tris)		3800
sulphonic acids, C14-17-sec-alkane, sodium salts	LD <sub>50</sub>	> 500-2000	Rat	OECD 401 (EU B.1)		9600
2-tert-butylcyclohexyl acetate		No data available				Not established
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	LD <sub>50</sub>	> 2000	Rat	OECD 401 (EU B.1)		Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				250000
alpha-hexylcinnamaldehyde		3100				Not established
allyl heptanoate	LD <sub>50</sub>	218	Rat	Method not given		25000
1,2-benzisothiazol-3(2H)-one	LD <sub>50</sub>	> 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 <sub>50</sub>	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 <sub>50</sub>	> 2000	Rabbit	Method not given		Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	LD <sub>50</sub>	> 2000	Mouse	Weight of evidence		Not established
2-tert-butylcyclohexyl acetate		No data available				Not established
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	LD <sub>50</sub>	> 2000	Rabbit	Method not given		Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				310000
alpha-hexylcinnamaldehyde		No data available				Not established
allyl heptanoate	LD <sub>50</sub>	810	Rabbit	Method not given		200000
1,2-benzisothiazol-3(2H)-one	LD <sub>50</sub>	> 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 <sub>50</sub>	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			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)		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 <sub>50</sub>	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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	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



## Good Sense Vert QuattroSelect O1a

allyl heptanoate	Not established	Not established	Not established	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			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	Irritant	Rabbit	OECD 404 (EU B.4)	4 hour(s)
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
alpha-hexylcinnamaldehyde	No data available			
allyl heptanoate	Not irritant			
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			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	Severe damage	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			
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			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	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			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
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			

## Good Sense Vert QuattroSelect O1a

2-tert-butylcyclohexyl acetate	No data available			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	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	
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	No evidence for mutagenicity, 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	
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	

## 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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	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
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				
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	NOAEL	Teratogenic effects Maternal toxicity	> 1000	Rat	OECD 414 (EU B.31), oral		
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

## Good Sense Vert QuattroSelect O1a

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				
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	NOAEL	> 750	Rat	OECD 407 (EU B.7)	28	
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				
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	NOEL	50	Rat	Method not given	90	
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 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				
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)		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					
amides, C8-18 (even numbered) and	Oral	NOEL	> 50	Rat	Method not given	90 day(s)		

## Good Sense Vert QuattroSelect O1a

C18-unsatd., N, N-bis(hydroxyethyl)							
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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	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
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	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**

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 <sub>50</sub>	1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
sulphonic acids, C14-17-sec-alkane, sodium salts	LC <sub>50</sub>	1 - 10	<i>Brachydanio rerio</i>	OECD 203, static	96
2-tert-butylcyclohexyl acetate		No data			

## Good Sense Vert QuattroSelect O1a

		available			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	LC <sub>50</sub>	2.4	<i>Oncorhynchus mykiss</i>	OECD 203, semi-static	96
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
alpha-hexylcinnamaldehyde		No data available			
allyl heptanoate	LC <sub>50</sub>	0.12	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
1,2-benzisothiazol-3(2H)-one	LC <sub>50</sub>	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 <sub>50</sub>	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 <sub>50</sub>	1 - 10	<i>Daphnia magna Straus</i>	OECD 202, static	48
sulphonic acids, C14-17-sec-alkane, sodium salts	EC <sub>50</sub>	9.81	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
2-tert-butylcyclohexyl acetate		No data available			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	EC <sub>50</sub>	3.2	<i>Daphnia magna Straus</i>	OECD 202, static	48
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 <sub>50</sub>	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 <sub>50</sub>	0.126	<i>Daphnia magna Straus</i>	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 <sub>50</sub>	1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
sulphonic acids, C14-17-sec-alkane, sodium salts	EC <sub>50</sub>	> 61	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
2-tert-butylcyclohexyl acetate		No data available			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	E <sub>r</sub> C <sub>50</sub>	3.9	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
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 <sub>r</sub> C <sub>50</sub>	0.11		OECD 201 (EU C.3)	72
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC <sub>50</sub>	0.003	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol ethoxylate		No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			
2-tert-butylcyclohexyl acetate		No data available			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)		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			

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## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol ethoxylate	EC <sub>10</sub>	> 10000	Activated sludge	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			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	EC <sub>50</sub>	> 1000		Method not given	0.5 hour(s)
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 <sub>20</sub>	3.3	Activated sludge	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 <sub>20</sub>	0.97	Activated sludge	OECD 209	3 hour(s)

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
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				
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	NOEC	1	<i>Oncorhynchus mykiss</i>	OECD 203	96 hour(s)	
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				
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	NOEC	1	<i>Daphnia magna</i>	OECD 202	48 hour(s)	
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 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				

## Good Sense Vert QuattroSelect O1a

		available				
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)		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****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 <sub>50</sub>	Method	Evaluation
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO <sub>2</sub> 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.
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)			> 60 % in 28 day(s)	OECD 301D	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 <sub>2</sub> 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 <sub>50</sub>	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 <sub>50</sub>	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			
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	3.52	Method not given	Low potential for bioaccumulation	
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	

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				
amides, C8-18 (even numbered) and	65.36		Method not given	Low potential for bioaccumulation	



## Good Sense Vert QuattroSelect O1a

C18-unsatd., N, N-bis(hydroxyethyl)					
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 Koc	Desorption coefficient Log Koc(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				
amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	241				
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 information****Land 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**

## Good Sense Vert QuattroSelect O1a

**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:** 08.0

**Revision:** 2022-11-28

**Reason for revision:**

This data sheet contains changes from the previous version in section(s):, 2, 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.
- H311 - Toxic 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.
- 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
- 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**