

Endbac Probe and Utensil Sanitising Wipes

Revision: 2014-11-06

Version: 05.0

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

1.1 Product identifier

Trade name: Endbac Probe and Utensil Sanitising Wipes

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

Identified uses:

For professional use only.

AISE-P301 - General purpose cleaner. Manual process

AISE-P314 - Surface disinfectant. Manual process

AISE-P317 - Wet wipe. Manual process

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

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Aquatic Chronic 3 (H412)

Classification in accordance with Directive 1999/45/EC and corresponding national legislation

Risk phrases:

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Contains EUH208: poly (hexamethylenebiguanide) hydrochloride (Polyaminopropyl Biguanide), 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) (Methylchloroisothiazolinone, Methylisothiazolinone)

Hazard statements:

EUH208 - May produce an allergic reaction.

H412 - Harmful to aquatic life with long lasting effects.

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
ethanol	200-578-6	64-17-5	No data available	Flam. Liq. 2 (H225)	F;R11		10-20

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didecyldimethylammonium chloride	230-525-2	7173-51-5	No data available	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	Xn;R22 C;R34 N;R50		0.1-1
poly (hexamethylenebiguanide) hydrochloride	Polymer*	27083-27-8	[4]	Acute Tox. 1 (H330) Carc. 2 (H351) STOT RE 1 (H372) Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Xn;R22 Xi;R37/38-41-43 N;R50/53		0.1-1
2-methyl-2H-isothiazol-3-one	220-239-6	2682-20-4	No data available	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	Xn;R20/22 C;R34 Xi;R43 N;R50		0.1-1
bronopol (INN)	200-143-0	52-51-7	No data available	Acute Tox. 4 (H302) Acute Tox. 4 (H312) STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400)	Xn;R21/22 Xi;R37/38-41 N;R50		0.01-0.1
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	220-239-6 247-500-7	55965-84-9	No data available	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	T;R23/24/25 C;R34 Xi;R43 N;R50/53		< 0.01

* Polymer.

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

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. 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:

No known effects or symptoms in normal use.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Sand. Alcohol-resistant foam. Do not use water.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

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6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

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 Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container.

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

7.3 Specific end use(s)

No specific advice for end use available.

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

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
ethanol	1000 ppm 1920 mg/m ³	3000 ppm 5760 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

DNEL/DMEL and PNEC values**Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	No data available	No data available	No data available	No data available
didecyltrimethylammonium chloride	No data available	No data available	No data available	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	No data available	No data available	No data available	No data available
bronopol (INN)	No data available	No data available	No data available	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
ethanol	No data available	No data available	No data available	No data available
didecyltrimethylammonium chloride	No data available	No data available	No data available	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	No data available	No data available	No data available	No data available
bronopol (INN)	No data available	No data available	No data available	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available	No data available	No data available	No data available

DNEL 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)

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ethanol	No data available	No data available	No data available	No data available
didecyldimethylammonium chloride	No data available	No data available	No data available	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	No data available	No data available	No data available	No data available
bronopol (INN)	No data available	No data available	No data available	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	No data available	No data available	No data available	No data available
didecyldimethylammonium chloride	No data available	No data available	No data available	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	No data available	No data available	No data available	No data available
bronopol (INN)	No data available	No data available	No data available	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	No data available	No data available	No data available	No data available
didecyldimethylammonium chloride	No data available	No data available	No data available	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	No data available	No data available	No data available	No data available
bronopol (INN)	No data available	No data available	No data available	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
ethanol	No data available	No data available	No data available	No data available
didecyldimethylammonium chloride	No data available	No data available	No data available	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	No data available	No data available	No data available	No data available
bronopol (INN)	0.01	0.0008	0.0025	0.43
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 data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
ethanol	No data available	No data available	No data available	No data available
didecyldimethylammonium chloride	No data available	No data available	No data available	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	No data available	No data available	No data available	No data available
bronopol (INN)	0.041	0.00328	0.5	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 data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

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

Personal protective equipment

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

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

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.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

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

Method / remark

Physical State: Liquid

Appearance: Liquid on inert carrier material

Colour: Not determined

Odour: Product specific

Odour threshold: Not applicable

pH: ≈ 6 (neat)

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

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

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
ethanol	78.4	Method not given	
didecyldimethylammonium chloride	No data available		
poly (hexamethylenebiguanide) hydrochloride	102	Method not given	
2-methyl-2H-isothiazol-3-one	No data available		
bronopol (INN)	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

Flash point (°C): ≈ 46

Sustained combustion: This product with a flashpoint between 21 °C and 60 °C does not support combustion

Evaporation rate: Not determined

Flammability (solid, gas): Not determined

Upper/lower flammability limit (%): Not determined

closed cup

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

Substance data, flammability or explosive limits, if available:

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
ethanol	5800	Method not given	
didecyldimethylammonium chloride	No data available		
poly (hexamethylenebiguanide) hydrochloride	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
bronopol (INN)	0.0051	OECD 104 (EU A.4)	20
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available		

Method / remark

Vapour density: Not determined

Relative density: Not determined

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

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
ethanol	No data available		
didecyldimethylammonium chloride	No data available		
poly (hexamethylenebiguanide) hydrochloride	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
bronopol (INN)	280	Method not given	23
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available		

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

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

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

Oxidising properties: Not oxidising

9.2 Other information

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Surface tension (N/m): Not determined

Corrosion to metals: Not corrosive

Weight of evidence

Substance data, dissociation constant, if available:

Ingredient(s)	Value	Method	Temperature (°C)
bronopol (INN)	9.56 (pKa)	Method not given	21

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. Keep in a cool place. Keep container in a well-ventilated place.

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 - Inhalatory, mists (mg/l): 2.5

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)
ethanol	LD ₅₀	5000	Rat	OECD 401 (EU B.1)	
didecyldimethylammonium chloride	LD ₅₀	300 - 2000	Rat	OECD 401 (EU B.1)	
poly (hexamethylenebiguanide) hydrochloride	LD ₅₀	> 2000	Rat	Method not given	
2-methyl-2H-isothiazol-3-one		No data available			
bronopol (INN)	LD ₅₀	305	Rat	OECD 401 (EU B.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)	LD ₅₀	457	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
ethanol	LD ₅₀	> 10000	Rabbit	OECD 402 (EU B.3)	
didecyldimethylammonium chloride		No data available			
poly (hexamethylenebiguanide) hydrochloride		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
bronopol (INN)	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)	
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	660	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC ₅₀	> 1800	Rat	Non guideline test	4
didecyldimethylammonium chloride		No data available			

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poly (hexamethyleneguanide) hydrochloride		No data available		
2-methyl-2H-isothiazol-3-one		No data available		
bronopol (INN)		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		

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
didecyldimethylammonium chloride	Corrosive	Rabbit	OECD 404 (EU B.4)	
poly (hexamethyleneguanide) hydrochloride	Irritant		Method not given	
2-methyl-2H-isothiazol-3-one	No data available			
bronopol (INN)	Irritant	Rabbit	OECD 404 (EU B.4)	
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
ethanol	No data available			
didecyldimethylammonium chloride	No data available			
poly (hexamethyleneguanide) hydrochloride	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
bronopol (INN)	Severe damage	Rabbit	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
ethanol	No data available			
didecyldimethylammonium chloride	No data available			
poly (hexamethyleneguanide) hydrochloride	Irritating to respiratory tract		Method not given	
2-methyl-2H-isothiazol-3-one	No data available			
bronopol (INN)	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)
ethanol	No data available			
didecyldimethylammonium chloride	No data available			
poly (hexamethyleneguanide) hydrochloride	Sensitising		Method not given	
2-methyl-2H-isothiazol-3-one	No data available			
bronopol (INN)	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)	Sensitising		Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
didecyldimethylammonium chloride	No data available			
poly (hexamethyleneguanide) hydrochloride	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
bronopol (INN)	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)
ethanol	No data available		No data available	
didecyldimethylammonium chloride	No data available		No data available	
poly (hexamethyleneguanide) hydrochloride	No data available		No data available	
2-methyl-2H-isothiazol-3-one	No data available		No data available	

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bronopol (INN)	No evidence for mutagenicity, negative test results	Method not given	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
ethanol	No data available
didecyldimethylammonium chloride	No data available
poly (hexamethylenebiguanide) hydrochloride	No evidence for carcinogenicity, negative test results
2-methyl-2H-isothiazol-3-one	No data available
bronopol (INN)	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
ethanol			No data available				
didecyldimethylammonium chloride			No data available				
poly (hexamethylenebiguanide) hydrochloride			No data available				
2-methyl-2H-isothiazol-3-one			No data available				
bronopol (INN)			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
ethanol		No data available				
didecyldimethylammonium chloride		No data available				
poly (hexamethylenebiguanide) hydrochloride		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
bronopol (INN)		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
ethanol		No data available				
didecyldimethylammonium chloride		No data available				
poly (hexamethylenebiguanide) hydrochloride		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
bronopol (INN)		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
ethanol		No data available				
didecyldimethylammonium chloride		No data available				
poly (hexamethylenebiguanide) hydrochloride		No data available				

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2-methyl-2H-isothiazol-3-one		No data available			
bronopol (INN)		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
ethanol			No data available					
didecyldimethylammonium chloride			No data available					
poly (hexamethylenebiguanide) hydrochloride			No data available					
2-methyl-2H-isothiazol-3-one			No data available					
bronopol (INN)			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)
ethanol	No data available
didecyldimethylammonium chloride	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available
2-methyl-2H-isothiazol-3-one	No data available
bronopol (INN)	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)
ethanol	No data available
didecyldimethylammonium chloride	No data available
poly (hexamethylenebiguanide) hydrochloride	No data available
2-methyl-2H-isothiazol-3-one	No data available
bronopol (INN)	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. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

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

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC ₅₀	8150	<i>Alburnus alburnus</i>	Method not given	96
didecyldimethylammonium chloride	LC ₅₀	0.1 - 1	<i>Brachydanio rerio</i>	OECD 203	96
poly (hexamethylenebiguanide) hydrochloride	LC ₅₀	0.026	<i>Oncorhynchus mykiss</i>	Method not given	96
2-methyl-2H-isothiazol-3-one		No data available			
bronopol (INN)	LC ₅₀	41.2	<i>Oncorhynchus mykiss</i>	Method not given	96

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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)	LC ₅₀	0.28	<i>Lepomis macrochirus</i>	OECD 203	96
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Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC ₅₀	9268 - 14221	<i>Daphnia magna Straus</i>	Method not given	48
didecyldimethylammonium chloride	EC ₅₀	0.1 - 1	<i>Daphnia magna Straus</i>	OECD 202	48
poly (hexamethylenebiguanide) hydrochloride	EC ₅₀	0.09	<i>Daphnia magna Straus</i>	OECD 202	48
2-methyl-2H-isothiazol-3-one		No data available			
bronopol (INN)	EC ₅₀	1.4	Not specified	Method not given	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 Straus</i>	OECD 202	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC ₀	5000	<i>Scenedesmus quadricauda</i>	Method not given	168
didecyldimethylammonium chloride	EC ₅₀	0.1 - 1	<i>Pseudokirchneriella subcapitata</i>	OECD 201	72
poly (hexamethylenebiguanide) hydrochloride	E _r C ₅₀	0.0191	<i>Pseudokirchneriella subcapitata</i>	OECD 201	72
2-methyl-2H-isothiazol-3-one		No data available			
bronopol (INN)	EC ₅₀	0.4 - 2.8	Not specified	Method not given	72
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC ₅₀	0.003	<i>Pseudokirchneriella subcapitata</i>	OECD 201	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
ethanol		No data available			
didecyldimethylammonium chloride		No data available			
poly (hexamethylenebiguanide) hydrochloride		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
bronopol (INN)		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
ethanol	EC ₀	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
didecyldimethylammonium chloride		No data available			
poly (hexamethylenebiguanide) hydrochloride	EC ₅₀	38	<i>Bacteria</i>	Method not given	4 hour(s)
2-methyl-2H-isothiazol-3-one		No data available			
bronopol (INN)	EC ₂₀	2	<i>Activated sludge</i>	OECD 209	150 minute(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
ethanol		No data available				
didecyldimethylammonium chloride		No data available				
poly (hexamethylenebiguanide) hydrochloride		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
bronopol (INN)	EC ₅₀	39.1	<i>Oncorhynchus mykiss</i>	OECD 210	49 hour(s)	

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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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Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
ethanol		No data available				
didecyltrimethylammonium chloride		No data available				
poly (hexamethylenebiguanide) hydrochloride		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
bronopol (INN)	NOEC	0.27	<i>Daphnia magna</i>	OECD 211, flow-through	21 day(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)		No data available				

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

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available				
didecyltrimethylammonium chloride		No data available				
poly (hexamethylenebiguanide) hydrochloride		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
bronopol (INN)		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
bronopol (INN)	LD ₅₀	> 500	<i>Eisenia fetida</i>	OECD 207	14	

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
bronopol (INN)	No data available	OECD 111	Rapidly hydrolysible	

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
ethanol					No data available
didecyltrimethylammonium chloride		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable
poly (hexamethylenebiguanide) hydrochloride				Method not given	Not readily biodegradable.
2-methyl-2H-isothiazol-3-one					No data available
bronopol (INN)					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)		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

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Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
ethanol	No data available			
didecyldimethylammonium chloride	No data available			
poly (hexamethylenebiguanide) hydrochloride	No data available	Method not given	No bioaccumulation expected	
2-methyl-2H-isothiazol-3-one	No data available			
bronopol (INN)	0.18	Method not given	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
ethanol	No data available				
didecyldimethylammonium chloride	2.1		Method not given	No bioaccumulation expected	
poly (hexamethylenebiguanide) hydrochloride	No data available		Method not given	No bioaccumulation expected	
2-methyl-2H-isothiazol-3-one	No data available				
bronopol (INN)	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				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
ethanol	No data available				
didecyldimethylammonium chloride	No data available				
poly (hexamethylenebiguanide) hydrochloride	No data available				Potential for adsorption to soil
2-methyl-2H-isothiazol-3-one	No data available				
bronopol (INN)	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 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste from residues / unused products:

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

European Waste Catalogue:

16 03 05* - organic wastes containing dangerous substances.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

SECTION 14: Transport information**ADR, RID, ADN, IMO/IMDG, ICAO/IATA**

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

Class: -

Endbac Probe and Utensil Sanitising Wipes

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 73/78 and the IBC Code: The product is not transported in bulk tankers.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

Ingredients according to EC Detergents Regulation 648/2004

disinfectants, 2-Bromo-2-Nitropropane-1,3-Diol, Methylchloroisothiazolinone, Methylisothiazolinone

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

MSDS code: MSDSGB6765

Version: 05.0

Revision: 2014-11-06

Reason for revision:

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3

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 R, H and EUH phrases mentioned in section 3:

- H225 - Highly flammable liquid and vapour.
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H311 - Toxic in contact with skin.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H330 - Fatal if inhaled.
- H331 - Toxic if inhaled.
- H335 - May cause respiratory irritation.
- H351 - Suspected of causing cancer.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- 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.
- R11 - Highly flammable.
- R20 - Harmful by inhalation.
- R21 - Harmful in contact with skin.
- R22 - Harmful if swallowed.
- R23 - Toxic by inhalation.
- R24 - Toxic in contact with skin.
- R25 - Toxic if swallowed.
- R26 - Very toxic by inhalation.
- R34 - Causes burns.
- R37 - Irritating to respiratory system.
- R38 - Irritating to skin.
- R40 - Limited evidence of a carcinogenic effect.
- R41 - Risk of serious damage to eyes.
- R43 - May cause sensitisation by skin contact.
- R50 - Very toxic to aquatic organisms.
- R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

End of Safety Data Sheet