



## Deosan Teatfoam Advance AG104

Revision: 2018-01-25

Version: 02.1

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

#### 1.1 Product identifier

**Trade name:** Deosan Teatfoam Advance AG104

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

##### Identified uses:

For professional use only.

Animal care product, skin conditioner. Manual process

Spray application (AISE\_CS\_I01 & AISE\_CS\_I03)

**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, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

#### Contact details

Diversey Hygiene Sales Limited  
Jamestown Road, Finglas, Dublin 11, Ireland  
Tel: 01 8081808 (9am - 5pm Mon-Fri)  
Email: dublin.orders@diversey.com

#### 1.4 Emergency telephone number

Tel: 01 8081808 (9am - 5pm Mon-Fri)

After hours: National Poisons Centre, Beaumont Hospital, Dublin 9

Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Tel: 01 809 2566 (health care professionals)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

Aquatic Chronic 2 (H411)

#### 2.2 Label elements



**Signal word:** Warning.

#### Hazard statements:

H319 - Causes serious eye irritation.

H411 - Toxic 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	Notes	Weight percent
glycerol	200-289-5	56-81-5	01-2119471987-18	Not classified as hazardous		3-10
alkyl polyglucoside	500-220-1	68515-73-1	01-2119488530-36	Eye Dam. 1 (H318)		1-3
chlorhexidine digluconate	242-354-0	18472-51-0	No data available	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1		0.1-1

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amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	-	139734-65-9	No data available	(H410) Skin Corr. 1C (H314) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	0.01-0.1
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\* Polymer.

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.

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

<b>Inhalation:</b>	Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
<b>Eye contact:</b>	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
<b>Ingestion:</b>	Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.

### 4.2 Most important symptoms and effects, both acute and delayed

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

### 4.3 Indication of any immediate medical attention and special treatment needed

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

### 5.3 Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. 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.

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**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. 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)	Long term value(s)	Short term value(s)
glycerol	10 mg/m <sup>3</sup> mist	30 mg/m <sup>3</sup> mist

Biological limit values, 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
glycerol	-	-	-	229
alkyl polyglucoside	-	-	-	35.7
chlorhexidine digluconate	-	-	-	-
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	-	-	-	-

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)
glycerol	No data available	-	No data available	-
alkyl polyglucoside	No data available	-	No data available	595000
chlorhexidine digluconate	-	-	-	-
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	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)
glycerol	No data available	-	No data available	-
alkyl polyglucoside	No data available	-	No data available	357000
chlorhexidine digluconate	-	-	-	-
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available	-	No data available	-

DNEL 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
glycerol	-	-	-	56
alkyl polyglucoside	-	-	-	420
chlorhexidine digluconate	-	-	-	-
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	-	-	-	-

DNEL 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
glycerol	-	-	-	33
alkyl polyglucoside	-	-	-	124
chlorhexidine digluconate	-	-	-	-
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	-	-	-	No data available

**Environmental exposure**

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## Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
glycerol	0.885	0.0885	8.85	1000
alkyl polyglucoside	0.176	0.0176	0.27	560
chlorhexidine digluconate	-	-	-	-
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	-	-	-	-

## Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
glycerol	3.3	0.33	0.141	-
alkyl polyglucoside	1.516	0.152	0.654	-
chlorhexidine digluconate	-	-	-	-
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	-	-	-	-

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.

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

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** Provide a good standard of general ventilation.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

## 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:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

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

## Method / remark

**Physical State:** Liquid

**Colour:** Clear, Green

**Odour:** Slightly perfumed

**Odour threshold:** Not applicable

**pH:** ≈ 7 (neat)

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

Not relevant to classification of this product

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

## Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
glycerol	290	Method not given	1013
alkyl polyglucoside	> 100	Method not given	1013
chlorhexidine digluconate	Product decomposes before boiling	OECD 103 (EU A.2)	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available		

## Method / remark

**Flash point (°C):** Not applicable.

**Sustained combustion:** Not applicable.  
 ( UN Manual of Tests and Criteria, section 32, L.2 )

**Evaporation rate:** Not determined

**Flammability (solid, gas):** Not determined

**Upper/lower flammability limit (%):** Not determined

## Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
glycerol	2.7	19

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chlorhexidine digluconate	-	-
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## Method / remark

**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
glycerol	< 1	Method not given	20
alkyl polyglucoside	No data available		
chlorhexidine digluconate	0.0051	OECD 104 (EU A.4)	25
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available		

## Method / remark

**Vapour density:** Not determined

**Relative density:** ≈ 1.02 (20 °C)

**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
glycerol	500	Method not given	20
alkyl polyglucoside	Soluble	Method not given	20
chlorhexidine digluconate	Soluble	OECD 105 (EU A.6)	25
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	Soluble		

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

## Method / remark

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not applicable.

**Viscosity:** Not determined

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising.

## 9.2 Other information

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Not corrosive

Not relevant to classification of this product

Substance data, dissociation constant, if 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): >5000

Substance data, where relevant and available, are listed below:.

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**Acute toxicity**

## Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
glycerol	LD <sub>50</sub>	12600	Rat	Method not given	
alkyl polyglucoside	LD <sub>50</sub>	> 2000	Rat	OECD 423 (EU B.1 tris)	
chlorhexidine digluconate	LD <sub>50</sub>	> 2000	Rat	OECD 401 (EU B.1)	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	LD <sub>50</sub>	> 300	Rat	OECD 423 (EU B.1 tris)	

## Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
glycerol	LD <sub>50</sub>	> 10000	Rabbit	Method not given	
alkyl polyglucoside	LD <sub>50</sub>	> 2000	Rabbit	OECD 402 (EU B.3)	
chlorhexidine digluconate	LD <sub>50</sub>	> 5000	Rabbit	EPA OPP 81-2	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	LD <sub>50</sub>	> 2000		Weight of evidence	

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
glycerol		No data available			
alkyl polyglucoside		No data available			
chlorhexidine digluconate		No data available			
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		No data available			

**Irritation and corrosivity**

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
glycerol	Not irritant		OECD 404 (EU B.4)	
alkyl polyglucoside	Not irritant	Rabbit	OECD 404 (EU B.4)	
chlorhexidine digluconate	Not irritant	Rabbit	OECD 404 (EU B.4)	4 hour(s)
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	Corrosive		Method not given	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
glycerol	Not corrosive or irritant		Method not given	
alkyl polyglucoside	Severe damage	Rabbit	OECD 405 (EU B.5)	
chlorhexidine digluconate	Severe damage	Rabbit	OECD 405 (EU B.5)	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	Corrosive		Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
glycerol	No data available			
alkyl polyglucoside	No data available			
chlorhexidine digluconate	No data available			
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available			

**Sensitisation**

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
glycerol	Not sensitising	Human	Human repeated patch test	
alkyl polyglucoside	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
chlorhexidine digluconate	Not sensitising	Guinea pig	Method not given	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
glycerol	No data available			
alkyl polyglucoside	No data available			
chlorhexidine digluconate	No data available			
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available			

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

## Mutagenicity

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Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
glycerol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
alkyl polyglucoside	No evidence for mutagenicity, negative test results	Read across	No data available	
chlorhexidine digluconate	No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13) OECD 476 (HGPR) OECD 473	No evidence of genotoxicity, negative test results No evidence for mutagenicity	OECD 474 (EU B.12)
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available		No data available	

## Carcinogenicity

Ingredient(s)	Effect
glycerol	No evidence for carcinogenicity, negative test results
alkyl polyglucoside	No evidence for carcinogenicity, weight-of-evidence
chlorhexidine digluconate	No evidence for carcinogenicity, negative test results
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
glycerol			No data available				Not toxic for reproduction
alkyl polyglucoside			No data available		OECD 416, (EU B.35), oral		No evidence for reproductive toxicity
chlorhexidine digluconate			-	Rat	Weight of evidence OECD 414 (EU B.31), oral		No evidence for reproductive toxicity No evidence for developmental toxicity No evidence for teratogenic effects
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid			No data available				

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
glycerol		No data available				
alkyl polyglucoside	NOAEL	100	Rat	OECD 408 (EU B.26)	90	
chlorhexidine digluconate		No data available				
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		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
glycerol		No data available				
alkyl polyglucoside		No data available				
chlorhexidine digluconate		No data available				
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		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
glycerol		No data available				
alkyl polyglucoside		No data available				
chlorhexidine digluconate		No data available				
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		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
glycerol			No data available					

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alkyl polyglucoside			No data available				
chlorhexidine digluconate			No data available				
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid			No data available				

## STOT-single exposure

Ingredient(s)	Affected organ(s)
glycerol	No data available
alkyl polyglucoside	No data available
chlorhexidine digluconate	Not applicable
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
glycerol	No data available
alkyl polyglucoside	No data available
chlorhexidine digluconate	Not applicable
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	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)
glycerol	LC <sub>50</sub>	54000	<i>Oncorhynchus mykiss</i>	Method not given	96
alkyl polyglucoside	LC <sub>50</sub>	100.81	<i>Brachydanio rerio</i>	ISO 7346	96
chlorhexidine digluconate	LC <sub>50</sub>	2.08	<i>Brachydanio rerio</i>	OECD 203 (EU C.1)	96
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	LC <sub>50</sub>	0.43	<i>Fish</i>	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
glycerol	EC <sub>50</sub>	> 10000	<i>Daphnia magna Straus</i>	Method not given	24
alkyl polyglucoside	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
chlorhexidine digluconate	EC <sub>50</sub>	0.087 (measured)	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	EC <sub>50</sub>	0.11	<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)
glycerol		No data available			-
alkyl polyglucoside	EC <sub>50</sub>	27.22	<i>Desmodesmus subspicatus</i>	Method not given	72
chlorhexidine digluconate	E <sub>r</sub> C <sub>50</sub>	0.081 (measured)	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	EC <sub>50</sub>	0.05	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species



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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
glycerol		No data available			-
alkyl polyglucoside	EC <sub>50</sub>	12.43	<i>Skeletonema costatum</i>	Method not given	3
chlorhexidine digluconate		No data available			
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		No data available			-

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
glycerol	EC <sub>50</sub>	> 10000	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
alkyl polyglucoside	EC <sub>10</sub>	> 560	<i>Pseudomonas putida</i>	Method not given	6 hour(s)
chlorhexidine digluconate	EC <sub>50</sub>	25	<i>Activated sludge</i>	OECD 209	3 hour(s)
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	EC <sub>50</sub>	22	<i>Activated sludge</i>	OECD 209	

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
glycerol		No data available				
alkyl polyglucoside	NOEC	1	<i>Brachydanio rerio</i>	Method not given	28 day(s)	
chlorhexidine digluconate		No data available				
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
glycerol		No data available				
alkyl polyglucoside	NOEC	1	<i>Daphnia magna</i>	OECD 202	21 day(s)	
chlorhexidine digluconate	NOEC	0.0206 (measured)	<i>Daphnia magna</i>	OECD 211	21 day(s)	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		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
glycerol		No data available			-	
alkyl polyglucoside		No data available			-	
chlorhexidine digluconate	NOEC	21	<i>Chironomus riparius</i>	OECD 218		
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		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
glycerol		No data available			-	
alkyl polyglucoside		No data available			-	
chlorhexidine digluconate	NOEC	> 1000	<i>Eisenia fetida</i>	OECD 207	14	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		No data available			-	

## Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
glycerol		No data available			-	
alkyl polyglucoside		No data available			-	

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		available				
chlorhexidine digluconate	EC <sub>50</sub>	526	<i>Brassica napus</i>	OECD 208	21	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
glycerol		No data available			-	
alkyl polyglucoside		No data available			-	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
glycerol		No data available			-	
alkyl polyglucoside		No data available			-	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
glycerol		No data available			-	
alkyl polyglucoside		No data available			-	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		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
chlorhexidine digluconate	No data available	QSAR Read across	Rapidly photodegradable	Estimate

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
chlorhexidine digluconate	> 365 day(s)	OECD 111		

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
chlorhexidine digluconate	Photolysis	8.6- 69.1 day(s)	Method not given	Degradable by photolysis in water	

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
glycerol			60% in 28 day(s)	Method not given	Readily biodegradable
alkyl polyglucoside			59%	OECD 301E	Readily biodegradable
chlorhexidine digluconate				Weight of evidence	Not readily biodegradable.
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid		Oxygen depletion	94%	OECD 301A	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
glycerol	-1.76	Method not given	No bioaccumulation expected	
alkyl polyglucoside	0.07	Method not given	No bioaccumulation expected	
chlorhexidine digluconate	-1.81	OECD 107		
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available			

Bioconcentration factor (BCF)

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Ingredient(s)	Value	Species	Method	Evaluation	Remark
glycerol	No data available				
alkyl polyglucoside	No data available				
chlorhexidine digluconate	42		Weight of evidence	Low potential for bioaccumulation	
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
glycerol	No data available				Potential for mobility in soil, soluble in water
alkyl polyglucoside	No data available				
chlorhexidine digluconate	> 3.9		OECD 121		
amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	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.  
16 03 05\* - organic wastes containing dangerous substances.

**European Waste Catalogue:****Empty packaging****Recommendation:****Suitable cleaning agents:**

Dispose of observing national or local regulations.  
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:** 3082**14.2 UN proper shipping name:**

Environmentally hazardous substance, liquid, n.o.s. ( chlorhexidine digluconate )

**14.3 Transport hazard class(es):****Class:** 9**Label(s):** 9**14.4 Packing group:** III**14.5 Environmental hazards:****Environmentally hazardous:** Yes**Marine pollutant:** Yes**14.6 Special precautions for user:** None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.**Other relevant information:****ADR****Classification code:** M6**Tunnel restriction code:** E**Hazard identification number:** 90**IMO/IMDG****EmS:** F-A, S-F

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082.

## SECTION 15: Regulatory information

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

#### EU regulations:

- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No. 648/2004 - Detergents regulation

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

#### Ingredients according to EC Detergents Regulation 648/2004

amphoteric surfactants, non-ionic surfactants, disinfectants < 5 %  
 perfumes, DMDM Hydantoin

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 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:** MS1001831

**Version:** 02.1

**Revision:** 2018-01-25

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 3, 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:

- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- 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.

#### 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**