



Surf Professional Tropical Lily & Ylang Ylang Conc

Revision: 2018-01-25

Version: 02.0

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

1.1 Product identifier

Trade name: Surf Professional Tropical Lily & Ylang Ylang Conc
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1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:

For professional use only.

AISE-P102 - Laundry detergent. Semi-automatic process

AISE-P103 - Laundry detergent. 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, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Unilever UK Ltd., Freepost ADM1000, London SW1A 2XX
Tel: 0800 776647

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

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 EUH208: 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone)

Hazard statements:

H319 - Causes serious eye irritation.

EUH208 - May produce an allergic reaction.

H412 - Harmful to aquatic life with long lasting effects.

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
Triethanolamine dodecylbenzenesulfonate	248-406-9	27323-41-7	No data available	Acute Tox. 3 (H301)		3-10

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				Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	221-416-0	3088-31-1	No data available	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	3-10
Alcohols, C12-15, ethoxylated	Polymer*	68131-39-5	No data available	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	3-10
sodium dodecylbenzenesulphonate	246-680-4	25155-30-0	01-2119489428-22	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	1-3
propane-1,2-diol	200-338-0	57-55-6	01-2119456809-23	Not classified as hazardous	1-3
1,2-benzisothiazol-3(2H)-one	220-120-9	2634-33-5	No data available	Acute Tox. 2 (H330) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	0.01-0.1

* 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

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. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Ingestion:

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

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:

No known effects or symptoms in normal use.

Skin contact:

No known effects or symptoms in normal use.

Eye contact:

Causes severe irritation.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

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.

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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 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. 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 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)
propane-1,2-diol	150 ppm total particulates and vapour 474 mg/m ³ total particulates and vapour 10 mg/m ³ particulates	450 ppm total particulate and vapour 1422 mg/m ³ total particulate and vapour 30 mg/m ³ particulate

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
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available	No data available	No data available	No data available
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
propane-1,2-diol	-	-	-	-
1,2-benzisothiazol-3(2H)-one	-	-	-	-

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)
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available	No data available	No data available	No data available
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
propane-1,2-diol	No data available	-	No data available	-
1,2-benzisothiazol-3(2H)-one	-	-	-	-

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)
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available

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sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available	No data available	No data available	No data available
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
propane-1,2-diol	No data available	-	No data available	-
1,2-benzisothiazol-3(2H)-one	-	-	-	-

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available	No data available	No data available	No data available
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
propane-1,2-diol	-	-	10	168
1,2-benzisothiazol-3(2H)-one	-	-	-	-

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available	No data available	No data available	No data available
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
propane-1,2-diol	-	-	10	50
1,2-benzisothiazol-3(2H)-one	-	-	-	-

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)
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available	No data available	No data available	No data available
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
propane-1,2-diol	260	26	183	20000
1,2-benzisothiazol-3(2H)-one	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available	No data available	No data available	No data available
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
propane-1,2-diol	572	57.2	50	-
1,2-benzisothiazol-3(2H)-one	-	-	-	-

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: The product is intended to be used in closed systems.
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: 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

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

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Physical State: Liquid**Colour:** NA Off-White**Odour:** Perfumed**Odour threshold:** Not applicable**pH:** ≈ 8 (neat)**Melting point/freezing point (°C):** Not determined**Initial boiling point and boiling range (°C):** 999**Method / remark**

ISO 4316

Not relevant to classification of this product

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
Triethanolamine dodecylbenzenesulfonate	No data available		
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
sodium dodecylbenzenesulphonate	No data available		
propane-1,2-diol	185-190	Method not given	1013
1,2-benzisothiazol-3(2H)-one	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 applicable to liquids**Upper/lower flammability limit (%):** Not determined

Not relevant to classification of this product

See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
propane-1,2-diol	2.6	12.6

Method / remark**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
Triethanolamine dodecylbenzenesulfonate	No data available		
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
sodium dodecylbenzenesulphonate	No data available		
propane-1,2-diol	18.6	Method not given	20
1,2-benzisothiazol-3(2H)-one	No data available		

Method / remark**Vapour density:** Not determined**Relative density:** ≈ 1.03 (20 °C)**Solubility in / Miscibility with Water:** Fully miscible

Not relevant to classification of this product

OECD 109 (EU A.3)

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
Triethanolamine dodecylbenzenesulfonate	No data available		
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
sodium dodecylbenzenesulphonate	No data available		
propane-1,2-diol	Soluble	Method not given	
1,2-benzisothiazol-3(2H)-one	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 applicable.**Viscosity:** ≈ 300 mPa.s (20 °C)**Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising.

DM-006 Viscosity - Standard

9.2 Other information**Surface tension (N/m):** Not determined**Corrosion to metals:** Not corrosive

OECD 115

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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): 21857.9

Skin irritation and corrosivity

Result: Not corrosive or irritant **Method:** Weight of evidence

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)
Triethanolamine dodecylbenzenesulfonate		No data available	Rabbit		
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium dodecylbenzenesulphonate		650			
propane-1,2-diol	LD ₅₀	> 10000	Rat	Method not given	
1,2-benzisothiazol-3(2H)-one	LD ₅₀	> 2000	Rat		

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Triethanolamine dodecylbenzenesulfonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium dodecylbenzenesulphonate		No data available			
propane-1,2-diol	LD ₅₀	> 2000	Rabbit	Method not given	
1,2-benzisothiazol-3(2H)-one	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Triethanolamine dodecylbenzenesulfonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data			

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		available		
sodium dodecylbenzenesulphonate		No data available		
propane-1,2-diol	LC ₅₀	> 317 (mist) No mortality observed	Rabbit	Non guideline test
1,2-benzisothiazol-3(2H)-one		No data available		

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Triethanolamine dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
sodium dodecylbenzenesulphonate	No data available			
propane-1,2-diol	Not irritant	Rabbit	OECD 404 (EU B.4)	
1,2-benzisothiazol-3(2H)-one	Corrosive			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Triethanolamine dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
sodium dodecylbenzenesulphonate	No data available			
propane-1,2-diol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
1,2-benzisothiazol-3(2H)-one	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Triethanolamine dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
sodium dodecylbenzenesulphonate	No data available			
propane-1,2-diol	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
Triethanolamine dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
sodium dodecylbenzenesulphonate	No data available			
propane-1,2-diol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
1,2-benzisothiazol-3(2H)-one	Sensitising	Guinea pig		

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Triethanolamine dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
sodium dodecylbenzenesulphonate	No data available			
propane-1,2-diol	No data available			
1,2-benzisothiazol-3(2H)-one	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)
Triethanolamine dodecylbenzenesulphonate	No data available		No data available	
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available		No data available	
Alcohols, C12-15, ethoxylated	No data available		No data available	
sodium dodecylbenzenesulphonate	No data available		No data available	
propane-1,2-diol	No evidence for mutagenicity, negative test results	Method not given	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	

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Carcinogenicity

Ingredient(s)	Effect
Triethanolamine dodecylbenzenesulfonate	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available
Alcohols, C12-15, ethoxylated	No data available
sodium dodecylbenzenesulphonate	No data available
propane-1,2-diol	No evidence for carcinogenicity, negative test results
1,2-benzisothiazol-3(2H)-one	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
Triethanolamine dodecylbenzenesulfonate			No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate			No data available				
Alcohols, C12-15, ethoxylated			No data available				
sodium dodecylbenzenesulphonate			No data available				
propane-1,2-diol			No data available				No evidence for reproductive toxicity
1,2-benzisothiazol-3(2H)-one			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
Triethanolamine dodecylbenzenesulfonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
sodium dodecylbenzenesulphonate		No data available				
propane-1,2-diol		No data available				
1,2-benzisothiazol-3(2H)-one		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
Triethanolamine dodecylbenzenesulfonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
sodium dodecylbenzenesulphonate		No data available				
propane-1,2-diol		No data available				
1,2-benzisothiazol-3(2H)-one		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
Triethanolamine dodecylbenzenesulfonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
sodium dodecylbenzenesulphonate		No data available				
propane-1,2-diol		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
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	route		(mg/kg bw/d)			time	organs affected	
Triethanolamine dodecylbenzenesulfonate			No data available					
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate			No data available					
Alcohols, C12-15, ethoxylated			No data available					
sodium dodecylbenzenesulphonate			No data available					
propane-1,2-diol			No data available					
1,2-benzisothiazol-3(2H)-one			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
Triethanolamine dodecylbenzenesulfonate	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available
Alcohols, C12-15, ethoxylated	No data available
sodium dodecylbenzenesulphonate	No data available
propane-1,2-diol	No data available
1,2-benzisothiazol-3(2H)-one	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Triethanolamine dodecylbenzenesulfonate	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available
Alcohols, C12-15, ethoxylated	No data available
sodium dodecylbenzenesulphonate	No data available
propane-1,2-diol	No data available
1,2-benzisothiazol-3(2H)-one	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)
Triethanolamine dodecylbenzenesulfonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium dodecylbenzenesulphonate		No data available			
propane-1,2-diol	LC ₅₀	> 1000	Fish	Method not given	24
1,2-benzisothiazol-3(2H)-one		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Triethanolamine dodecylbenzenesulfonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium dodecylbenzenesulphonate		No data available			

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propane-1,2-diol	EC ₅₀	> 100	<i>Daphnia</i>	Method not given	48
1,2-benzisothiazol-3(2H)-one		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Triethanolamine dodecylbenzenesulfonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium dodecylbenzenesulphonate		No data available			
propane-1,2-diol	EC ₅₀	24200	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
1,2-benzisothiazol-3(2H)-one		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Triethanolamine dodecylbenzenesulfonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium dodecylbenzenesulphonate		No data available			
propane-1,2-diol		No data available			-
1,2-benzisothiazol-3(2H)-one		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Triethanolamine dodecylbenzenesulfonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium dodecylbenzenesulphonate		No data available			
propane-1,2-diol	EC ₀	> 20000	<i>Pseudomonas putida</i>	Method not given	18 hour(s)
1,2-benzisothiazol-3(2H)-one	EC ₂₀	3.3	<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
Triethanolamine dodecylbenzenesulfonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
sodium dodecylbenzenesulphonate		No data available				
propane-1,2-diol		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Triethanolamine dodecylbenzenesulfonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
sodium dodecylbenzenesulphonate		No data available				
propane-1,2-diol	NOEC	13020	<i>Ceriodaphnia</i>	Method not	7 day(s)	

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			dubia	given		
1,2-benzisothiazol-3(2H)-one		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
Triethanolamine dodecylbenzenesulfonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
sodium dodecylbenzenesulphonate		No data available				
propane-1,2-diol		No data available			-	
1,2-benzisothiazol-3(2H)-one		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
propane-1,2-diol		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propane-1,2-diol		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
propane-1,2-diol		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propane-1,2-diol		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propane-1,2-diol		No data available			-	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
Triethanolamine dodecylbenzenesulfonate					No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate					No data available
Alcohols, C12-15, ethoxylated				OECD 301B	Readily biodegradable
sodium dodecylbenzenesulphonate				OECD 301E	Readily biodegradable
propane-1,2-diol			> 70 % in 28 day(s)	OECD 301A	Readily biodegradable
1,2-benzisothiazol-3(2H)-one				Weight of evidence	Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

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Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
1,2-benzisothiazol-3(2H)-one	Sewage treatment plant simulation	Primary degradation	> 90%	OECD 303A	Biodegradable

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
Triethanolamine dodecylbenzenesulfonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
sodium dodecylbenzenesulphonate	No data available			
propane-1,2-diol	-1.07	Method not given	No bioaccumulation expected	
1,2-benzisothiazol-3(2H)-one	0.7	OECD 107	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Triethanolamine dodecylbenzenesulfonate	No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available				
Alcohols, C12-15, ethoxylated	No data available				
sodium dodecylbenzenesulphonate	No data available				
propane-1,2-diol	No data available				
1,2-benzisothiazol-3(2H)-one	6.95		OECD 305		

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
Triethanolamine dodecylbenzenesulfonate	No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available				
Alcohols, C12-15, ethoxylated	No data available				
sodium dodecylbenzenesulphonate	No data available				
propane-1,2-diol	No data available				Potential for mobility in soil, soluble in water
1,2-benzisothiazol-3(2H)-one	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.

20 01 29* - detergents containing dangerous substances.

European Waste Catalogue:**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**Class:** -**14.4 Packing group:** Non-dangerous goods**14.5 Environmental hazards:** Non-dangerous goods

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14.6 Special precautions for user: Non-dangerous goods

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

SECTION 15: Regulatory information

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

EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- 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

anionic surfactants	5 - 15 %
non-ionic surfactants, polycarboxylates, soap, phosphonates	< 5 %
perfumes, optical brighteners, Citronellol, Benzisothiazolinone, Alpha-Isomethyl Ionone, Butylphenyl Methylpropional, enzymes, Hexyl Cinnamal, Linalool, Limonene, Geraniol	

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

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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.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H330 - Fatal if inhaled.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful 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
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet