



Persil Professional Biological Liquid

Revision: 2021-03-28

Version: 16.0

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

1.1 Product identifier

Trade name: Persil Professional Biological Liquid
Persil is a registered trade mark and is used under licence of Unilever

UFI: CFM5-803P-Y00H-U2JV

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

Product use: Laundry detergent.
Uses advised against: Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8a_1
PC35-Washing and cleaning products
AISE_SWED_PW_4_1
AISE_SWED_PW_19_1
PC35-Washing and cleaning products

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: customerservice.uk@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)
Skin Sens. 1 (H317)
Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Warning.

Contains 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), 3(2H)-Isothiazolone, 2-octyl- (Octylisothiazolinone)

Hazard statements:

H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

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P280 - Wear protective gloves.
P501 - Dispose of unused content as chemical waste.

Further indications on the label:

Contains: preservative.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
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)		3-10
3,6,9,12,15,18,21-Heptaooxatriacontan-1-ol	221-283-9	3055-97-8	-	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		3-10
Triethanolamine dodecylbenzenesulfonate	248-406-9	27323-41-7	-	Acute Tox. 3 (H301) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		1-3
2-methyl-2H-isothiazol-3-one	220-239-6	2682-20-4	[6]	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 M=10 (H400) Aquatic Chronic 1 (H410)		0.01-0.1
3(2H)-Isothiazolone, 2-octyl-	247-761-7	26530-20-1	-	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 M=100 (H400) Aquatic Chronic 1 M=100 (H410)		0.01-0.1

Specific concentration limits

2-methyl-2H-isothiazol-3-one:
• Skin Sens. 1 (H317) >= 0.0015%
3(2H)-Isothiazolone, 2-octyl-:
• Skin Sens. 1 (H317) >= 0.0015%

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

ATE, if available, are listed in section 11.

[6] Exempted: biocidal active. See Article 15a 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****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

Take off immediately all contaminated clothing and wash it before reuse.

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:

May cause an allergic skin reaction.

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

4.3 Indication of any immediate medical attention and special treatment needed

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

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

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

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

Wear suitable gloves.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

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

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep out of reach of children.

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

7.3 Specific end use(s)

No specific advice for end use available.

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

Air limit values, if available:

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

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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
sodium dodecylbenzenesulphonate	-	-	-	13
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	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)
sodium dodecylbenzenesulphonate	No data available	-	No data available	-
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	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)
sodium dodecylbenzenesulphonate	No data available	-	No data available	-
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	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
sodium dodecylbenzenesulphonate	-	-	-	52
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	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
sodium dodecylbenzenesulphonate	-	-	-	-
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	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)
sodium dodecylbenzenesulphonate	-	-	-	-
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	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)
sodium dodecylbenzenesulphonate	-	-	-	-
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available	No data available	No data available	No data available
Triethanolamine dodecylbenzenesulfonate	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available

8.2 Exposure controls

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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:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.
- Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
PC35-Washing and cleaning products	PC35-Washing and cleaning products	C	-	-	ERC8a
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a

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:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
- Body protection:** No special requirements under normal use conditions.
- Respiratory protection:** No special requirements under normal use conditions.
- Environmental exposure controls:** No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 1

- Appropriate engineering controls:** No special requirements under normal use conditions.
- Appropriate organisational controls:** No special requirements under normal use conditions.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
PC35-Washing and cleaning products	PC35-Washing and cleaning products	C	-	-	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

Personal protective equipment

- Eye / face protection:** No special requirements under normal use conditions.
- Hand protection:** No special requirements under normal use conditions.
- Body protection:** No special requirements under normal use conditions.
- Respiratory protection:** No special requirements under normal use conditions.

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

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: Hazy , Dark , Green Blue	
Odour: Product specific	
Odour threshold: Not applicable	
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	See substance data

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Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium dodecylbenzenesulphonate	No data available		
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available		
Triethanolamine dodecylbenzenesulfonate	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		

Method / remark

Flammability (solid, gas): Not applicable to liquids**Flammability (liquid):** Not flammable.**Flash point (°C):** Not applicable.**Sustained combustion:** Not applicable.

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

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: Not determined**Decomposition temperature:** Not applicable.**pH:** ≈ 8 (neat)**Dilution pH:** ≈ 8 (1 %)**Kinematic viscosity:** ≈ 250 mPa.s (20 °C)**Solubility in / Miscibility with Water:** Fully miscible

ISO 4316

ISO 4316

DM-006 Viscosity - Standard

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium dodecylbenzenesulphonate	No data available		
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available		
Triethanolamine dodecylbenzenesulfonate	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		

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

Method / remark

Vapour pressure: Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium dodecylbenzenesulphonate	No data available		
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available		
Triethanolamine dodecylbenzenesulfonate	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		

Method / remark

Relative density: ≈ 1.02 (20 °C)**Relative vapour density:** No data available.**Particle characteristics:** No data available.

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

9.2 Other information**9.2.1 Information with regard to physical hazard classes****Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising.**Corrosion to metals:** Not corrosive

Weight of evidence

9.2.2 Other safety characteristics

No other relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

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Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Eye irritation and corrosivity

Result: Eye irritant 2

Method: Weight of evidence

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
sodium dodecylbenzenesulphonate	LD ₅₀	650	Rat	Non guideline test Weight of evidence		14000
3,6,9,12,15,18,21-Heptaooxatriacontan-1-ol		No data available				Not established
Triethanolamine dodecylbenzenesulfonate		No data available	Rabbit			200000
2-methyl-2H-isothiazol-3-one	LD ₅₀	120	Rat	OECD 401 (EU B.1)		760000
3(2H)-Isothiazolone, 2-octyl-		No data available				1.1e+006

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
sodium dodecylbenzenesulphonate	LD ₅₀	> 2000	Rat			Not established
3,6,9,12,15,18,21-Heptaooxatriacontan-1-ol		No data available				Not established
Triethanolamine dodecylbenzenesulfonate		No data available				Not established
2-methyl-2H-isothiazol-3-one	LD ₅₀	242	Rat	OECD 402 (EU B.3)	24 hours	1.8e+006
3(2H)-Isothiazolone, 2-octyl-		No data available				2.7e+006

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium dodecylbenzenesulphonate		No data available			
3,6,9,12,15,18,21-Heptaooxatriacontan-1-ol		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
2-methyl-2H-isothiazol-3-one	LC ₅₀	(mist) 0.11	Rat	OECD 403 (EU B.2)	4 hours
3(2H)-Isothiazolone, 2-octyl-		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
sodium dodecylbenzenesulphonate	Not established	Not established	Not established	Not established

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3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	Not established	Not established	Not established	Not established
Triethanolamine dodecylbenzenesulphonate	Not established	Not established	Not established	Not established
2-methyl-2H-isothiazol-3-one	Not established	1500	Not established	Not established
3(2H)-Isothiazolone, 2-octyl-	Not established	2400	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium dodecylbenzenesulphonate	Irritant			
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available			
Triethanolamine dodecylbenzenesulphonate	No data available			
2-methyl-2H-isothiazol-3-one	Corrosive			
3(2H)-Isothiazolone, 2-octyl-	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium dodecylbenzenesulphonate	Corrosive			
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available			
Triethanolamine dodecylbenzenesulphonate	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium dodecylbenzenesulphonate	No data available			
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available			
Triethanolamine dodecylbenzenesulphonate	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium dodecylbenzenesulphonate	Not sensitising	Guinea pig		
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available			
Triethanolamine dodecylbenzenesulphonate	No data available			
2-methyl-2H-isothiazol-3-one	Sensitising	Guinea pig		
3(2H)-Isothiazolone, 2-octyl-	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium dodecylbenzenesulphonate	No data available			
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available			
Triethanolamine dodecylbenzenesulphonate	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
3(2H)-Isothiazolone, 2-octyl-	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)
sodium dodecylbenzenesulphonate	No data available		No data available	
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available		No data available	
Triethanolamine dodecylbenzenesulphonate	No data available		No data available	
2-methyl-2H-isothiazol-3-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
3(2H)-Isothiazolone, 2-octyl-	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium dodecylbenzenesulphonate	No data available
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available
Triethanolamine dodecylbenzenesulphonate	No data available
2-methyl-2H-isothiazol-3-one	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available

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Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium dodecylbenzenesulphonate			No data available				
3,6,9,12,15,18,21-Heptaaxatritriacontan-1-ol			No data available				
Triethanolamine dodecylbenzenesulfonate			No data available				
2-methyl-2H-isothiazol-3-one			No data available				
3(2H)-Isothiazolone, 2-octyl-			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
sodium dodecylbenzenesulphonate		No data available				
3,6,9,12,15,18,21-Heptaaxatritriacontan-1-ol		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		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
sodium dodecylbenzenesulphonate		No data available				
3,6,9,12,15,18,21-Heptaaxatritriacontan-1-ol		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		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
sodium dodecylbenzenesulphonate		No data available				
3,6,9,12,15,18,21-Heptaaxatritriacontan-1-ol		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		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
sodium dodecylbenzenesulphonate			No data available					
3,6,9,12,15,18,21-Heptaaxatritriacontan-1-ol			No data available					
Triethanolamine dodecylbenzenesulfonate			No data available					
2-methyl-2H-isothiazol-3-one			No data available					
3(2H)-Isothiazolone, 2-octyl-			No data available					

STOT-single exposure

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Ingredient(s)	Affected organ(s)
sodium dodecylbenzenesulphonate	No data available
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available
Triethanolamine dodecylbenzenesulfonate	No data available
2-methyl-2H-isothiazol-3-one	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium dodecylbenzenesulphonate	No data available
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol	No data available
Triethanolamine dodecylbenzenesulfonate	No data available
2-methyl-2H-isothiazol-3-one	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

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

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

SECTION 12: Ecological information**12.1 Toxicity**

No data is available on the mixture.

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

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium dodecylbenzenesulphonate		No data available			
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium dodecylbenzenesulphonate		No data available			
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium dodecylbenzenesulphonate		No data available		Weight of evidence	
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol		No data available			

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Triethanolamine dodecylbenzenesulfonate		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium dodecylbenzenesulphonate		No data available			
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium dodecylbenzenesulphonate		No data available			
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol		No data available			
Triethanolamine dodecylbenzenesulfonate		No data available			
2-methyl-2H-isothiazol-3-one	EC ₂₀	2.8	Activated sludge	OECD 209	3 hour(s)
3(2H)-Isothiazolone, 2-octyl-		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium dodecylbenzenesulphonate		No data available				
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium dodecylbenzenesulphonate		No data available				
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		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
sodium dodecylbenzenesulphonate		No data available				
3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol		No data available				
Triethanolamine dodecylbenzenesulfonate		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				

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Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

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:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
sodium dodecylbenzenesulphonate				OECD 301E	Readily biodegradable
3,6,9,12,15,18,21-Heptaaxatritriacontan-1-ol		Method not given		Method not given	Not readily biodegradable.
Triethanolamine dodecylbenzenesulfonate	Activated sludge, aerobe		69%	OECD 301B	Readily biodegradable
2-methyl-2H-isothiazol-3-one					Not readily biodegradable.
3(2H)-Isothiazolone, 2-octyl-					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
2-methyl-2H-isothiazol-3-one	Surface water (fresh)	Mineralisation rate	> 50 % in 4 day(s)	OECD 309	Biodegradable

12.3 Bioaccumulative potentialPartition coefficient n-octanol/water (log K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
sodium dodecylbenzenesulphonate	No data available			
3,6,9,12,15,18,21-Heptaaxatritriacontan-1-ol	No data available			
Triethanolamine dodecylbenzenesulfonate	No data available			
2-methyl-2H-isothiazol-3-one	-0.32	OECD 107	No bioaccumulation expected	
3(2H)-Isothiazolone, 2-octyl-	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium dodecylbenzenesulphonate	No data available				
3,6,9,12,15,18,21-Heptaaxatritriacontan-1-ol	No data available				
Triethanolamine dodecylbenzenesulfonate	No data available				
2-methyl-2H-isothiazol-3-one	3.16		OECD 305		
3(2H)-Isothiazolone, 2-octyl-	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient	Desorption coefficient	Method	Soil/sediment type	Evaluation

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	Log Koc	Log Koc(des)			
sodium dodecylbenzenesulphonate	No data available				
3,6,9,12,15,18,21-Heptaooxatritriacontan-1-ol	No data available				
Triethanolamine dodecylbenzenesulfonate	No data available				
2-methyl-2H-isothiazol-3-one	No data available				
3(2H)-Isothiazolone, 2-octyl-	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

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

European Waste Catalogue:

20 01 29* - detergents containing dangerous substances.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

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

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

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

SECTION 15: Regulatory information**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
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605

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	< 5 %
perfumes , optical brighteners, Methylisothiazolinone, Limonene, Octylisothiazolinone, Citronellol, enzymes	

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.

Seveso - Classification: Not classified

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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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Version: 16.0

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Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 2, 15, 16

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

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

- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H311 - Toxic in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H330 - Fatal if inhaled.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very 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
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organization for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

End of Safety Data Sheet