



According to Regulation (EC) No 1907/2006

Persil Professional Biological Liquid

Revision: 2019-09-15 **Version:** 14.0

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

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

AISE-P102 - Laundry detergent. Semi-automatic process

AISE-P103 - Laundry detergent. Manual process

AISE-C1 - Laundry regular (powder, liquid) for consumer use

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

1.3 Details of the supplier of the safety data sheet

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

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: 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)

2.2 Label elements



Signal word: Warning.

Hazard statements:

H319 - Causes serious eye irritation.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

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

The product contains no substances classified as hazardous in concentrations which should be taken into account.

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	270-116-6	68411-31-4	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10

				Aquatic Chronic 3 (H412)	
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	500-234-8	68891-38-3	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	3-10
Alcohols, C12-15, ethoxylated	[4]	68131-39-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	3-10
sodium alkylbenzenesulphonate	270-115-0	68411-30-3	01-2119489428-22	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	1-3

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

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

[11] Substance of Very High Concern (SVHC)

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. Dilute with plenty of water.

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 adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. 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:

DNEL/DMEL and PNEC values

Human exposure

DNEL oral exposure - Consumer (mg/kg bw)

Diver oral exposure Consumer (mg/kg bw)				
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	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 alkylbenzenesulphonate	-	-	=	0.425

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	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 alkylbenzenesulphonate	-	-	-	85

DNEL dermal exposure - Consumer

DNLL definal 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)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	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 alkylbenzenesulphonate	-	-	-	42.5

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	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 alkylbenzenesulphonate	-	-	-	6

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects

Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with	No data available	No data available	No data available	No data available
triethanolamine				
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-,	No data available	No data available	No data available	No data available
C12-14-alkyl ethers, sodium salts				
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
sodium alkylbenzenesulphonate	-	-	-	1.5

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)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	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 alkylbenzenesulphonate	0.268	0.0268	0.0167	3.43

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	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 alkylbenzenesulphonate	8.1	6.8	35	-

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:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

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

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases

where splashes may occur when handling the product (EN 166).

Hand protection:No special requirements under normal use conditions.Body protection:No special requirements under normal use conditions.Respiratory protection:No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the $\underline{\textit{diluted}}$ product:

Recommended maximum concentration (%): 2

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

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: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical State: Liquid Colour: Clear, Green Odour: Slightly perfumed Odour threshold: Not applicable

pH > 8 (neat) ISO 4316 Dilution $pH: \approx 8$ ISO 4316

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

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available		, ,
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available		
Alcohols, C12-15, ethoxylated	No data available		
sodium alkylbenzenesulphonate	No data available		

Method / remark

Not relevant to classification of this product

Flammability (liquid): Not flammable.
Flash point (°C): not determined
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

Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark
See substance data

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available		
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available		
Alcohols, C12-15, ethoxylated	No data available		
sodium alkylbenzenesulphonate	No data available		

Method / remark

Vapour density: Not determined Not relevant to classification of this product

Relative density: ≈ 1.02 (20 °C) OECD 109 (EU A.3) Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available		,
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available		
Alcohols, C12-15, ethoxylated	No data available		
sodium alkylbenzenesulphonate	> 250		

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

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

Viscosity: ≈ 250 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

Not relevant to classification of this product

Weight of evidence

Method / remark

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): >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)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with		No data			
triethanolamine		available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,		No data			
sodium salts		available			
Alcohols, C12-15, ethoxylated	LD 50	>300 - <=2000	Rat	Method not given	
sodium alkylbenzenesulphonate	LD 50	1080	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts		No data available			
Alcohols, C12-15, ethoxylated	LD 50	>300 - <=2000	Rabbit	Method not given	
sodium alkylbenzenesulphonate	LD 50	> 2000	Rat	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium alkylbenzenesulphonate		No data available			

Irritation and corrosivity

Skin irritation and corrosivity				
Ingredient(s)	Result	Species	Method	Exposure time
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available			
Alcohols, C12-15, ethoxylated	Mild irritant			
sodium alkylbenzenesulphonate	Irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with	No data available			
triethanolamine				
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,	No data available			

sodium salts				
Alcohols, C12-15, ethoxylated	Severe damage			
sodium alkylbenzenesulphonate	Corrosive	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with	No data available			
triethanolamine				
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,	No data available			
sodium salts				
Alcohols, C12-15, ethoxylated	No data available			
sodium alkylbenzenesulphonate	Not irritating to			
	respiratory tract			

SensitisationSensitisation by skin contact

0611	Sitisation by skin contact				
	Ingredient(s)	Result	Species	Method	Exposure time (h)
	Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
Ро	ly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available			
	Alcohols, C12-15, ethoxylated	No data available			
	sodium alkylbenzenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available			
Alcohols, C12-15, ethoxylated	No data available			
sodium alkylbenzenesulphonate	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)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available		No data available	
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available		No data available	
Alcohols, C12-15, ethoxylated	No data available		No data available	
sodium alkylbenzenesulphonate	, , , ,	OECD 471 (EU B.12/13) OECD 476 OECD 473		

Carcinogenicity

Carcinogenicity	
Ingredient(s)	Effect
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,	No data available
sodium salts	
Alcohols, C12-15, ethoxylated	No data available
sodium alkylbenzenesulphonate	No data available

Toxicity for reproduction

l oxicity for reproduction							
Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine			No data available				
Poly(oxy-1,2-ethanediyl), .alphasulfoomegah ydroxy-, C12-14-alkyl ethers, sodium salts			No data available				
Alcohols, C12-15, ethoxylated			No data available				
sodium alkylbenzenesulphonat e	NOAEL	Teratogenic effects	300	Rat	Non guideline test		No known significant effects or critical hazards

Repeated dose toxicity

<u>Sub-acute o</u>	<u>r sub-c</u>	<u>hronic</u>	oral	toxicity	
					-

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected

Benzenesulfonic acid, C10-13-alkyl derivatives,	No data		
compounds with triethanolamine	available		
Poly(oxy-1,2-ethanediyl),	No data		
.alphasulfoomegahydroxy-, C12-14-alkyl ethers,	available		
sodium salts			
Alcohols, C12-15, ethoxylated	No data		
	available		
sodium alkylbenzenesulphonate	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
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			unie (uays)	anecteu
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts		No data available				
Alcohols, C12-15, ethoxylated		No data available				
sodium alkylbenzenesulphonate		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
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts		No data available				
Alcohols, C12-15, ethoxylated		No data available				
sodium alkylbenzenesulphonate		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
Danasa saulfania asid	Toute					time	organs anected	
Benzenesulfonic acid,			No data					
C10-13-alkyl			available					
derivatives, compounds								
with triethanolamine								
Poly(oxy-1,2-ethanediyl			No data					
),			available					
.alphasulfoomegah								
ydroxy-, C12-14-alkyl								
ethers, sodium salts								
Alcohols, C12-15,			No data					
ethoxylated			available					
sodium			No data					
alkylbenzenesulphonat			available					
е								

STOT-single exposure

Ingredient(s)	Affected organ(s)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,	No data available
sodium salts	
Alcohols, C12-15, ethoxylated	No data available
sodium alkylbenzenesulphonate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,	No data available
sodium salts	
Alcohols, C12-15, ethoxylated	No data available
sodium alkylbenzenesulphonate	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)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with		No data			
triethanolamine		available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,		No data			
sodium salts		available			
Alcohols, C12-15, ethoxylated	LC 50	10	Fish	Method not given	
sodium alkylbenzenesulphonate	LC 50	1.67	Fish	EPA-OPPTS 850.1075	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with		No data			
triethanolamine		available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,		No data			
sodium salts		available			
Alcohols, C12-15, ethoxylated	EC 50	10		Method not given	
sodium alkylbenzenesulphonate	LC 50	2.9	Daphnia	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with		No data			
triethanolamine		available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,		No data			
sodium salts		available			
Alcohols, C12-15, ethoxylated	EC 50	10		Method not given	
sodium alkylbenzenesulphonate	Еь С 50	47.3	Not specified	Non guideline test	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with		No data			
triethanolamine		available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers,		No data			
sodium salts		available			
Alcohols, C12-15, ethoxylated		No data			
		available			
sodium alkylbenzenesulphonate		No data			
		available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts		No data available			
Alcohols, C12-15, ethoxylated		No data available			
sodium alkylbenzenesulphonate	EC 50	550	Bacteria	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
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts		No data available				
Alcohols, C12-15, ethoxylated	NOEC	> 0.1 - <= 1.0		Method not given		
sodium alkylbenzenesulphonate	NOEC	0.23	Oncorhynchus mykiss	Method not given	72 day(s)	

Aquatic long-term toxicity - crustacea

Addatic long term toxicity crustacea							
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed	
		(mg/l)			time		
Benzenesulfonic acid, C10-13-alkyl derivatives,		No data					
compounds with triethanolamine		available					

Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts		No data available			
Alcohols, C12-15, ethoxylated	NOEC	> 0.1 - <= 1.0		Method not	
				given	
sodium alkylbenzenesulphonate	NOEC	1.41	Daphnia	OECD 211	
			maana	l	

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
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts		No data available				
Alcohols, C12-15, ethoxylated	EC 50	No data available				
sodium alkylbenzenesulphonate		No data available				

Terrestrial toxicityTerrestrial 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			
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine					Readily biodegradable			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts				OECD 301D	Readily biodegradable			
Alcohols, C12-15, ethoxylated				OECD 301B	Readily biodegradable			
sodium alkylbenzenesulphonate	Activated sludge, aerobe	CO ₂ production	85 % in 28 day(s)	OECD 301B	Readily biodegradable			

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Ingredient(s)	Value	Method	Evaluation	Remark
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available			
Alcohols, C12-15, ethoxylated	No data available			
sodium alkylbenzenesulphonate	3.32	Method not given	Low potential for bioaccumulation	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Benzenesulfonic acid,	No data available				
C10-13-alkyl					
derivatives, compounds					
with triethanolamine					
Poly(oxy-1,2-ethanediyl	No data available				
),					
.alphasulfoomegah					

	ydroxy-, C12-14-alkyl ethers, sodium salts				
	Alcohols, C12-15, ethoxylated	No data available			
a	sodium alkylbenzenesulphonat e	2-1000	Method not given	High potential for bioaccumulation	

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
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available				
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C12-14-alkyl ethers, sodium salts	No data available				
Alcohols, C12-15, ethoxylated	No data available				
sodium alkylbenzenesulphonate	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: 20 01 29* - deterge

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 goods14.6 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.

UFI: CFM5-803P-Y00H-U2JV

Ingredients according to EC Detergents Regulation 648/2004

anionic surfactants

5 - 15 % < 5 %

non-ionic surfactants, soap, polycarboxylates

 $perfumes, optical \ brighteners, \ Butylphenyl \ Methylpropional, \ Citronellol, \ enzymes,$

Benzisothiazolinone, Methylisothiazolinone, Octylisothiazolinone

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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Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 3, 6, 7, 8, 9, 11, 12, 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:

- H302 Harmful if swallowed.
 H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- 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