



Persil Professional Concentrated Non Biological Liquid

Revision: 2018-06-10

Version: 08.3

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

1.1 Product identifier

Trade name: Persil Professional Concentrated Non 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, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Unilever Ireland, No.20 Riverwalk, National Digital Park, Citywest, Dublin 24
Tel: 1850 445555

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

1.4 Emergency telephone number

Tel: 01 8081808 (9am - 5pm Mon-Fri)
After hours: National Poisons Centre, Beaumont Hospital, Dublin 9
Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)
Tel: 01 809 2566 (health care professionals)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

2.2 Label elements



Signal word: Warning.

Contains 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone)

Hazard statements:

H319 - Causes serious eye irritation.
EUH208 - May produce an allergic reaction.

Precautionary statements:

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

Further indications on the label:

Contains: preservative.

2.3 Other hazards

No other hazards known

Persil Professional Concentrated Non Biological Liquid

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) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		3-10
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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	223-267-7	3794-83-0	01-2119510382-52	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)		3-10
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

Persil Professional Concentrated Non Biological Liquid

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

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. Keep out of reach of children. 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 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:

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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	No data available	No data available	2.1
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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	No data available	No data available	48
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
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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	No data available	No data available	24
1,2-benzisothiazol-3(2H)-one	-	-	-	-

DNEL inhalatory exposure - Worker (mg/m³)

Persil Professional Concentrated Non Biological Liquid

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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	No data available	No data available	16.9
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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	10	No data available	10	4.2
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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	No data available	No data available	No data available
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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	No data available	No data available	No data available
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:

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 diluted product:

Recommended maximum concentration (%): 0.25

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

Persil Professional Concentrated Non Biological Liquid

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

Physical State: Liquid**Colour:** Opaque, White**Odour:** Slightly perfumed**Odour threshold:** Not applicable**pH:** ≈ 7 (neat)**Melting point/freezing point (°C):** Not determined**Initial boiling point and boiling range (°C):** Not determined**Method / remark**

ISO 4316

Not relevant to classification of this product

See substance data

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		
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		
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 relevant for classification of this product.**Flammability (solid, gas):** Not applicable to liquids**Upper/lower flammability limit (%):** Not determined

See substance data

Substance data, flammability or explosive limits, if available:

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		
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		

Method / remark**Vapour density:** Not determined**Relative density:** ≈ 1.05 (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		
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		
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:** ≈ 450 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

Substance data, dissociation constant, if available:

Persil Professional Concentrated Non Biological Liquid

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): 17694.7

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			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
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			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
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 available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			

Persil Professional Concentrated Non Biological Liquid

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Triethanolamine dodecylbenzenesulfonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
1,2-benzisothiazol-3(2H)-one	Corrosive			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Triethanolamine dodecylbenzenesulfonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Triethanolamine dodecylbenzenesulfonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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 dodecylbenzenesulfonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
1,2-benzisothiazol-3(2H)-one	Sensitising	Guinea pig		

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Triethanolamine dodecylbenzenesulfonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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 dodecylbenzenesulfonate	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	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		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	

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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available
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			No data				

Persil Professional Concentrated Non Biological Liquid

2-(2-dodecyloxyethoxy) ethyl sulphate			available				
Alcohols, C12-15, ethoxylated			No data available				
tetrasodium (1-hydroxy ethylidene)bisphosphonate			No data available				
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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available				
1,2-benzisothiazol-3(2H)-one		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
Triethanolamine dodecylbenzenesulfonate			No data available					
sodium 2-(2-dodecyloxyethoxy) ethyl sulphate			No data available					
Alcohols, C12-15, ethoxylated			No data available					
tetrasodium (1-hydroxy ethylidene)bisphosphonate			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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available
1,2-benzisothiazol-3(2H)-one	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
---------------	-------------------

Persil Professional Concentrated Non Biological Liquid

Triethanolamine dodecylbenzenesulfonate	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available
Alcohols, C12-15, ethoxylated	No data available
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
1,2-benzisothiazol-3(2H)-one	LC ₅₀	2.18	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	

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			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
1,2-benzisothiazol-3(2H)-one	EC ₅₀	2.94	<i>Daphnia</i>	OECD 202 (EU C.2)	48

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			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
1,2-benzisothiazol-3(2H)-one	E _r C ₅₀	0.11		OECD 201 (EU C.3)	72

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			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value	Inoculum	Method	Exposure
---------------	----------	-------	----------	--------	----------

Persil Professional Concentrated Non Biological Liquid

		(mg/l)			time
Triethanolamine dodecylbenzenesulfonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
1,2-benzisothiazol-3(2H)-one	EC ₂₀	3.3	Activated sludge	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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available				
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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

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
Triethanolamine dodecylbenzenesulfonate					No data available

Persil Professional Concentrated Non Biological Liquid

sodium 2-(2-dodecyloxyethoxy)ethyl sulphate					No data available
Alcohols, C12-15, ethoxylated				OECD 301B	Readily biodegradable
tetrasodium (1-hydroxy ethylidene)bisphosphonate				Weight of evidence	Not readily biodegradable.
1,2-benzisothiazol-3(2H)-one				Weight of evidence	Not readily biodegradable.

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
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			
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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 K _{oc}	Desorption coefficient Log K _{oc} (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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available				
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:

European Waste Catalogue:

Empty packaging

Recommendation:

Suitable cleaning agents:

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.

Dispose of observing national or local regulations.

Water, if necessary with cleaning agent.

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: Non-dangerous goods

Persil Professional Concentrated Non Biological Liquid

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

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

UFI: TVP5-E0ET-J00C-CMVP

Ingredients according to EC Detergents Regulation 648/2004

anionic surfactants	5 - 15 %
non-ionic surfactants, soap, polycarboxylates, phosphonates	< 5 %
perfumes, optical brighteners, Benzisothiazolinone	

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

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MSDS5991

Version: 08.3

Revision: 2018-06-10

Reason for revision:

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