



## Persil Professional Concentrated Non Biological Liquid

Revision: 2018-10-21

Version: 09.0

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

Diversey Ltd  
Weston Favell Centre, Northampton NN3 8PD, United Kingdom  
Tel: 01604 405311, Fax: 01604 406809  
Regulatory Email: customerservice.uk@diversey.com

#### 1.4 Emergency telephone number

For medical or environmental emergency only:  
call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

#### 2.2 Label elements



**Signal word:** Warning.

Contains 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone), 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), 3(2H)-Isothiazolone, 2-octyl- (Octylisothiazolinone)

#### 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. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

## 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
propane-1,2-diol	200-338-0	57-55-6	01-2119456809-23	Not classified as hazardous		3-10
sodium dodecylbenzenesulphonate	246-680-4	25155-30-0	01-2119489428-22	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		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
C12-14 alcohols, ethoxylated (3EO)	221-280-2	3055-94-5	No data available	Eye Dam. 1 (H318) Aquatic Acute 1 (H400)		0.1-1
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
2-methyl-2H-isothiazol-3-one	220-239-6	2682-20-4	No data available	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		0.01-0.1
3(2H)-Isothiazolone, 2-octyl-	247-761-7	26530-20-1	No data available	Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		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**

<b>Inhalation:</b>	Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
<b>Eye contact:</b>	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
<b>Ingestion:</b>	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.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.

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

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

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

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

**SECTION 5: Firefighting measures**

**Persil Professional Concentrated Non Biological Liquid****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**

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. 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:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
propane-1,2-diol	150 ppm total particulates and vapour 474 mg/m <sup>3</sup> total particulates and vapour 10 mg/m <sup>3</sup> particulates	450 ppm total particulate and vapour 1422 mg/m <sup>3</sup> total particulate and vapour 30 mg/m <sup>3</sup> particulate

Biological limit values, if available:

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

**DNEL/DMEL and PNEC values****Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
propane-1,2-diol	-	-	-	-
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available

## Persil Professional Concentrated Non Biological Liquid

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
C12-14 alcohols, ethoxylated (3EO)	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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)
propane-1,2-diol	No data available	-	No data available	-
sodium dodecylbenzenesulphonate	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
C12-14 alcohols, ethoxylated (3EO)	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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)
propane-1,2-diol	No data available	-	No data available	-
sodium dodecylbenzenesulphonate	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
C12-14 alcohols, ethoxylated (3EO)	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
propane-1,2-diol	-	-	10	168
sodium dodecylbenzenesulphonate	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
C12-14 alcohols, ethoxylated (3EO)	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
propane-1,2-diol	-	-	10	50
sodium dodecylbenzenesulphonate	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
C12-14 alcohols, ethoxylated (3EO)	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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)
propane-1,2-diol	260	26	183	20000
sodium dodecylbenzenesulphonate	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
C12-14 alcohols, ethoxylated (3EO)	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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 <sup>3</sup> )
propane-1,2-diol	572	57.2	50	-

## Persil Professional Concentrated Non Biological Liquid

sodium dodecylbenzenesulphonate	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
C12-14 alcohols, ethoxylated (3EO)	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-
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

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:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.  
**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

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

Recommended safety measures for handling the 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:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.  
**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

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

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

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

	Method / remark
<b>Physical State:</b> Liquid	
<b>Colour:</b> Opaque, White	
<b>Odour:</b> Slightly perfumed	
<b>Odour threshold:</b> Not applicable	
<b>pH:</b> > 7 (neat)	ISO 4316
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
propane-1,2-diol	185-190	Method not given	1013
sodium dodecylbenzenesulphonate	No data available		
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
C12-14 alcohols, ethoxylated (3EO)	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		

Method / remark

**Flammability (liquid):** Not flammable.

## Persil Professional Concentrated Non Biological Liquid

**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:

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

**Method / remark**

See substance data

**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
propane-1,2-diol	18.6	Method not given	20
sodium dodecylbenzenesulphonate	No data available		
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
C12-14 alcohols, ethoxylated (3EO)	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		

**Method / remark**

Not relevant to classification of this product  
OECD 109 (EU A.3)

**Vapour density:** Not determined

**Relative density:** ≈ 1.05 (20 °C)

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

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
propane-1,2-diol	Soluble	Method not given	
sodium dodecylbenzenesulphonate	No data available		
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
C12-14 alcohols, ethoxylated (3EO)	No data available		
1,2-benzisothiazol-3(2H)-one	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**

**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  
Weight of evidence

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.

## Persil Professional Concentrated Non Biological Liquid

**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): &gt;2000

**Eye irritation and corrosivity****Result:** Eye irritant 2**Species:** Not applicable.**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)
propane-1,2-diol	LD <sub>50</sub>	> 10000	Rat	Method not given	
sodium dodecylbenzenesulphonate	LD <sub>50</sub>	650	Rat	Non guideline test Weight of evidence	
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
C12-14 alcohols, ethoxylated (3EO)		No data available			
1,2-benzisothiazol-3(2H)-one	LD <sub>50</sub>	> 2000	Rat		
2-methyl-2H-isothiazol-3-one	LD <sub>50</sub>	> 2000	Rat	OECD 423 (EU B.1 tris)	
3(2H)-Isothiazolone, 2-octyl-		No data available			

## Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
propane-1,2-diol	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
sodium dodecylbenzenesulphonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
C12-14 alcohols, ethoxylated (3EO)		No data available			
1,2-benzisothiazol-3(2H)-one	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)	
2-methyl-2H-isothiazol-3-one	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)	
3(2H)-Isothiazolone, 2-octyl-		No data available			

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
propane-1,2-diol	LC <sub>50</sub>	> 317 (mist) No mortality observed	Rabbit	Non guideline test	
sodium dodecylbenzenesulphonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
C12-14 alcohols, ethoxylated (3EO)		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			

## Persil Professional Concentrated Non Biological Liquid

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
propane-1,2-diol	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
C12-14 alcohols, ethoxylated (3EO)	No data available			
1,2-benzisothiazol-3(2H)-one	Corrosive			
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
propane-1,2-diol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
sodium dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
C12-14 alcohols, ethoxylated (3EO)	No data available			
1,2-benzisothiazol-3(2H)-one	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
propane-1,2-diol	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
C12-14 alcohols, ethoxylated (3EO)	No data available			
1,2-benzisothiazol-3(2H)-one	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)
propane-1,2-diol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
C12-14 alcohols, ethoxylated (3EO)	No data available			
1,2-benzisothiazol-3(2H)-one	Sensitising	Guinea pig		
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
propane-1,2-diol	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
C12-14 alcohols, ethoxylated (3EO)	No data available			
1,2-benzisothiazol-3(2H)-one	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)
propane-1,2-diol	No evidence for mutagenicity, negative test results	Method not given	No data available	
sodium dodecylbenzenesulphonate	No data available		No data available	
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available		No data available	
Alcohols, C12-15, ethoxylated	No data available		No data available	



## Persil Professional Concentrated Non Biological Liquid

C12-14 alcohols, ethoxylated (3EO)	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
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
propane-1,2-diol	No evidence for carcinogenicity, negative test results
sodium dodecylbenzenesulphonate	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available
Alcohols, C12-15, ethoxylated	No data available
C12-14 alcohols, ethoxylated (3EO)	No data available
1,2-benzisothiazol-3(2H)-one	No data available
2-methyl-2H-isothiazol-3-one	No data available
3(2H)-Isothiazolone, 2-octyl-	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
propane-1,2-diol			No data available				No evidence for reproductive toxicity
sodium dodecylbenzenesulphonate			No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate			No data available				
Alcohols, C12-15, ethoxylated			No data available				
C12-14 alcohols, ethoxylated (3EO)			No data available				
1,2-benzisothiazol-3(2H)-one			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
propane-1,2-diol		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
C12-14 alcohols, ethoxylated (3EO)		No data available				
1,2-benzisothiazol-3(2H)-one		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
propane-1,2-diol		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
C12-14 alcohols, ethoxylated (3EO)		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				

## Persil Professional Concentrated Non Biological Liquid

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
propane-1,2-diol		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
C12-14 alcohols, ethoxylated (3EO)		No data available				
1,2-benzisothiazol-3(2H)-one		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
propane-1,2-diol			No data available					
sodium dodecylbenzenesulphonate			No data available					
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate			No data available					
Alcohols, C12-15, ethoxylated			No data available					
C12-14 alcohols, ethoxylated (3EO)			No data available					
1,2-benzisothiazol-3(2H)-one			No data available					
2-methyl-2H-isothiazol-3-one			No data available					
3(2H)-Isothiazolone, 2-octyl-			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
propane-1,2-diol	No data available
sodium dodecylbenzenesulphonate	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available
Alcohols, C12-15, ethoxylated	No data available
C12-14 alcohols, ethoxylated (3EO)	No data available
1,2-benzisothiazol-3(2H)-one	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)
propane-1,2-diol	No data available
sodium dodecylbenzenesulphonate	No data available
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available
Alcohols, C12-15, ethoxylated	No data available
C12-14 alcohols, ethoxylated (3EO)	No data available
1,2-benzisothiazol-3(2H)-one	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. 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

## Persil Professional Concentrated Non Biological Liquid

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)
propane-1,2-diol	LC <sub>50</sub>	> 1000	<i>Fish</i>	Method not given	24
sodium dodecylbenzenesulphonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
C12-14 alcohols, ethoxylated (3EO)		No data available			
1,2-benzisothiazol-3(2H)-one	LC <sub>50</sub>	2.18	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	
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)
propane-1,2-diol	EC <sub>50</sub>	> 100	<i>Daphnia</i>	Method not given	48
sodium dodecylbenzenesulphonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
C12-14 alcohols, ethoxylated (3EO)		No data available			
1,2-benzisothiazol-3(2H)-one	EC <sub>50</sub>	2.94	<i>Daphnia</i>	OECD 202 (EU C.2)	48
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)
propane-1,2-diol	EC <sub>50</sub>	24200	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
sodium dodecylbenzenesulphonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
C12-14 alcohols, ethoxylated (3EO)		No data available			
1,2-benzisothiazol-3(2H)-one	E <sub>r</sub> C <sub>50</sub>	0.11		OECD 201 (EU C.3)	72
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)
propane-1,2-diol		No data available			-
sodium dodecylbenzenesulphonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
C12-14 alcohols, ethoxylated (3EO)		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			
2-methyl-2H-isothiazol-3-one		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			

## Persil Professional Concentrated Non Biological Liquid

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
propane-1,2-diol	EC <sub>0</sub>	> 20000	<i>Pseudomonas putida</i>	Method not given	18 hour(s)
sodium dodecylbenzenesulphonate		No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
C12-14 alcohols, ethoxylated (3EO)		No data available			
1,2-benzisothiazol-3(2H)-one	EC <sub>20</sub>	3.3	<i>Activated sludge</i>	OECD 209	3 hour(s)
2-methyl-2H-isothiazol-3-one	EC <sub>20</sub>	2.8	<i>Activated sludge</i>	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
propane-1,2-diol		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
C12-14 alcohols, ethoxylated (3EO)		No data available				
1,2-benzisothiazol-3(2H)-one		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
propane-1,2-diol	NOEC	13020	<i>Ceriodaphnia dubia</i>	Method not given	7 day(s)	
sodium dodecylbenzenesulphonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
C12-14 alcohols, ethoxylated (3EO)		No data available				
1,2-benzisothiazol-3(2H)-one		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
propane-1,2-diol		No data available			-	
sodium dodecylbenzenesulphonate		No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
C12-14 alcohols, ethoxylated (3EO)		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				

## Persil Professional Concentrated Non Biological Liquid

**Terrestrial toxicity**

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

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

Terrestrial toxicity - plants, if available:

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

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

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

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
propane-1,2-diol			> 70 % in 28 day(s)	OECD 301A	Readily biodegradable
sodium dodecylbenzenesulphonate				OECD 301E	Readily biodegradable
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate					No data available
Alcohols, C12-15, ethoxylated				OECD 301B	Readily biodegradable
C12-14 alcohols, ethoxylated (3EO)					No data available
1,2-benzisothiazol-3(2H)-one				Weight of evidence	Not 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 <sub>50</sub>	Method	Evaluation
1,2-benzisothiazol-3(2H)-one	Sewage treatment plant simulation	Primary degradation	> 90%	OECD 303A	Biodegradable
2-methyl-2H-isothiazol-3-one	Surface water (fresh)	Mineralisation rate	> 50 % in 4 day(s)	OECD 309	Biodegradable

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
propane-1,2-diol	-1.07	Method not given	No bioaccumulation expected	
sodium dodecylbenzenesulphonate	No data available			
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available			
Alcohols, C12-15, ethoxylated	No data available			

## Persil Professional Concentrated Non Biological Liquid

C12-14 alcohols, ethoxylated (3EO)	No data available			
1,2-benzisothiazol-3(2H)-one	0.7	OECD 107	No bioaccumulation expected	
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
propane-1,2-diol	No data available				
sodium dodecylbenzenesulphonate	No data available				
sodium 2-(2-dodecyloxyethoxy) ethyl sulphate	No data available				
Alcohols, C12-15, ethoxylated	No data available				
C12-14 alcohols, ethoxylated (3EO)	No data available				
1,2-benzisothiazol-3(2H)-one	6.95		OECD 305		
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 Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
propane-1,2-diol	No data available				Potential for mobility in soil, soluble in water
sodium dodecylbenzenesulphonate	No data available				
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	No data available				
Alcohols, C12-15, ethoxylated	No data available				
C12-14 alcohols, ethoxylated (3EO)	No data available				
1,2-benzisothiazol-3(2H)-one	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 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

**Persil Professional Concentrated Non Biological Liquid****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, polycarboxylates, soap, phosphonates	< 5 %
perfumes, optical brighteners, 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*

**SDS code:** MSDS5991

**Version:** 09.0

**Revision:** 2018-10-21

**Reason for revision:**

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

- 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.
- H330 - Fatal if inhaled.
- H331 - Toxic if inhaled.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- 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**