



Persil Professional 3PODS

Revision: 2021-03-21

Version: 01.0

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

1.1 Product identifier

Trade name: Persil Professional 3PODS

Persil is a registered trade mark and is used under licence of Unilever

UFI: 4HVG-P12V-1008-PX11

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

Product use: Laundry detergent.

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

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8a_1

PC35-Washing and cleaning products

AISE_SWED_PW_4_1

AISE_SWED_PW_19_1

PC35-Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

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

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Irrit. 2 (H315)

Eye Irrit. 2 (H319)

Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Warning.

Contains 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one (Delta-Damascone), 3,7-dimethyloctan-3-ol (Tetrahydrolinalool), subtilisin (Subtilisin), hexyl salicylate (Hexyl Salicylate), d-limonene (Limonene), 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (Tetramethyl Acetyloctahydronaphtalenes)

Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.

EUH208 - May produce an allergic reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

Persil Professional 3PODS

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

P102 - Keep out of reach of children.

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

Concentrated enzymatic liquid products are dust free preparations. However, inappropriate handling may cause formation of dust or aerosols which may induce sensitization and may cause allergic reactions in sensitized individuals.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
amides, coco, N-(hydroxyethyl)	268-770-2	68140-00-1	-	Eye Dam. 1 (H318)		10-20
monoethanolamine alkylbenzenesulphonate	287-335-8	85480-55-3	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		10-20
Alcohols, C12-15, ethoxylated	500-195-7	68131-39-5	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		10-20
glycerol		56-81-5	01-2119471987-18	Not classified as hazardous		10-20
propane-1,2-diol	200-338-0	57-55-6	01-2119456809-23	Not classified as hazardous		10-20
3,7-dimethyloctan-3-ol	201-133-9	78-69-3	01-2119454788-21	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1B (H317)		0.1-1
subtilisin	232-752-2	9014-01-1	01-2119480434-38	Acute Tox. 4 (H302) STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		0.1-1
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	259-174-3	54464-57-2	01-2119489989-04	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)		0.1-1
hexyl salicylate	228-408-6	6259-76-3	01-2119638275-36	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1
d-limonene	227-813-5	5989-27-5	01-2119529223-47	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1
4-tert-butylcyclohexyl acetate	250-954-9	32210-23-4	01-2119976286-24	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)		0.1-1
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	260-709-8	57378-68-4	01-2119535122-53	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.01-0.1

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

ATE, if available, are listed in section 11.

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:

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

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Persil Professional 3PODS

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: Inappropriate handling may cause formation of dust or aerosols which may induce sensitization and may cause allergic reactions in sensitized individuals.

Skin contact: Causes irritation.

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

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

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Warning: concentrated enzymatic product. Spillages should be removed immediately to avoid formation of dust from dried product. Use a cloth wetted with a chlorine bleach to clean up product spillage. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (do not remove product spillage in procedures likely to give rise to aerosols). 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 to prevent aerosol and dust generation:

Do not apply via trigger spray or other device which creates aerosols.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

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

7.2 Conditions for safe storage, including any incompatibilities

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

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

7.3 Specific end use(s)

No specific advice for end use available.

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

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
glycerol	10 mg/m ³ mist	30 mg/m ³ mist
propane-1,2-diol	150 ppm total particulates and vapour 474 mg/m ³ total particulates and vapour 10 mg/m ³ particulates	450 ppm total particulate and vapour 1422 mg/m ³ total particulate and vapour 30 mg/m ³ particulate
subtilisin	0.00004 mg/m ³	0.00012 mg/m ³

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)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
amides, coco, N-(hydroxyethyl)	No data available	No data available	No data available	No data available
monoethanolamine alkylbenzenesulphonate	-	-	-	0.85
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
glycerol	-	-	-	229
propane-1,2-diol	-	-	-	85
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available
subtilisin	-	3.6	-	1.8
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	4.76
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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)
amides, coco, N-(hydroxyethyl)	No data available	No data available	No data available	No data available
monoethanolamine alkylbenzenesulphonate	No data available	-	12 mg/kg bw	170
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
glycerol	No data available	-	No data available	-
propane-1,2-diol	No data available	-	No data available	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available
subtilisin	0.2 %	-	-	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
d-limonene	0.222 mg/cm ² skin	-	No data available	-
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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)
amides, coco, N-(hydroxyethyl)	No data available	No data available	No data available	No data available
monoethanolamine alkylbenzenesulphonate	No data available	-	No data available	85
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
glycerol	No data available	-	No data available	-
propane-1,2-diol	No data available	-	No data available	213
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available
subtilisin	0.2 %	-	-	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available

hexyl salicylate	No data available	No data available	No data available	No data available
d-limonene	0.111 mg/cm ² skin	-	No data available	-
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
amides, coco, N-(hydroxyethyl)	No data available	No data available	No data available	No data available
monoethanolamine alkylbenzenesulphonate	-	-	12	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
glycerol	-	-	56	56
propane-1,2-diol	-	-	10	168
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available
subtilisin	-	-	0.00006 (DMEL)	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	33.3
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
amides, coco, N-(hydroxyethyl)	No data available	No data available	No data available	No data available
monoethanolamine alkylbenzenesulphonate	-	-	3	3
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
glycerol	-	-	-	33
propane-1,2-diol	-	-	10	50
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available
subtilisin	-	-	0.000015 (DMEL)	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	8.33
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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)
amides, coco, N-(hydroxyethyl)	No data available	No data available	No data available	No data available
monoethanolamine alkylbenzenesulphonate	0.268	0.0268	0.0167	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
glycerol	0.885	0.0885	8.85	1000
propane-1,2-diol	260	26	183	20000
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available
subtilisin	0.00006	0.000006	-	65
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available
d-limonene	0.014	0.0014	-	1.8
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
amides, coco, N-(hydroxyethyl)	No data available	No data available	No data available	No data available
monoethanolamine alkylbenzenesulphonate	8.1	8.1	35	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available
glycerol	3.3	0.33	0.141	-
propane-1,2-diol	572	57.2	50	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available
subtilisin	-	-	-	-
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)etha n-1-one	No data available	No data available	No data available	No data available
hexyl salicylate	No data available	No data available	No data available	No data available

Persil Professional 3PODS

d-limonene	3.85	0.385	0.763	-
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

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

Personal protective equipment

Eye / face protection:

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

Hand protection:

Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

No special requirements under normal use conditions.

Environmental exposure controls:

No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 0.1

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

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

REACH use scenarios considered for the diluted product:

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

Personal protective equipment

Eye / face protection:

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

No special requirements under normal use conditions.

Environmental exposure controls:

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 , Blue

Persil Professional 3PODS

Odour: Product specific**Odour threshold:** Not applicable**Melting point/freezing point (°C):** Not determined**Initial boiling point and boiling range (°C):** Not determined

Not relevant to classification of this product

See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
amides, coco, N-(hydroxyethyl)	No data available		
monoethanolamine alkylbenzenesulphonate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
glycerol	290	Method not given	1013
propane-1,2-diol	185-190	Method not given	1013
3,7-dimethyloctan-3-ol	No data available		
subtilisin	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
hexyl salicylate	No data available		
d-limonene	175-178	Method not given	1013
4-tert-butylcyclohexyl acetate	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

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

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

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

See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
glycerol	2.7	19
propane-1,2-diol	2.6	12.6
subtilisin	-	-
d-limonene	0.7	6.1

Method / remark**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**pH** ≈ 9 (neat)**Dilution pH:** ≈ 9 (0.1 %)**Kinematic viscosity:** ≈ 300 mPa.s (20 °C)**Solubility in / Miscibility with Water:** Fully miscible

ISO 4316

ISO 4316

DM-006 Viscosity - Standard

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
amides, coco, N-(hydroxyethyl)	No data available		
monoethanolamine alkylbenzenesulphonate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
glycerol	500	Method not given	20
propane-1,2-diol	Soluble	Method not given	
3,7-dimethyloctan-3-ol	No data available		
subtilisin	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
hexyl salicylate	No data available		
d-limonene	Insoluble	Method not given	20
4-tert-butylcyclohexyl acetate	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

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

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

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
amides, coco, N-(hydroxyethyl)	No data available		

Persil Professional 3PODS

monoethanolamine alkylbenzenesulphonate	No data available		
Alcohols, C12-15, ethoxylated	No data available		
glycerol	< 1	Method not given	20
propane-1,2-diol	18.6	Method not given	20
3,7-dimethyloctan-3-ol	No data available		
subtilisin	Not applicable		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
hexyl salicylate	No data available		
d-limonene	190-230	Method not given	20
4-tert-butylcyclohexyl acetate	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

Relative density: \approx 1.06 (20 °C)

Relative vapour density: No data available.

Particle characteristics: No data available.

Method / remark

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

Corrosion to metals: Not corrosive

9.2.2 Other safety characteristics

No other relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Eye irritation and corrosivity

Result: Eye irritant 2

Method: Weight of evidence

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
amides, coco, N-(hydroxyethyl)		No data available				Not established
monoethanolamine alkylbenzenesulphonate	LD ₅₀	1570	Rat	Method not given		10000
Alcohols, C12-15, ethoxylated		No data				10000

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		available				
glycerol	LD ₅₀	12600	Mouse	Method not given		Not established
propane-1,2-diol	LD ₅₀	> 10000	Rat	Method not given		Not established
3,7-dimethyloctan-3-ol		8270				Not established
subtilisin	LD ₅₀	1800	Rat	OECD 401 (EU B.1)		270000
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				Not established
hexyl salicylate		No data available				Not established
d-limonene	LD ₅₀	4400 - 5100	Rat	Method not given		4.4e+006
4-tert-butylcyclohexyl acetate		3370	Rat	Method not given		3.3e+006
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				550000

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
amides, coco, N-(hydroxyethyl)		No data available				Not established
monoethanolamine alkylbenzenesulphonate	LD ₅₀	2504	Rabbit	Method not given		Not established
Alcohols, C12-15, ethoxylated		No data available				Not established
glycerol	LD ₅₀	> 10000	Rabbit	Method not given		Not established
propane-1,2-diol	LD ₅₀	> 2000	Rabbit	Method not given		Not established
3,7-dimethyloctan-3-ol		No data available				Not established
subtilisin		No data available				Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				Not established
hexyl salicylate		No data available				Not established
d-limonene	LD ₅₀	> 5000	Rabbit	Method not given		Not established
4-tert-butylcyclohexyl acetate		No data available				Not established
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
amides, coco, N-(hydroxyethyl)		No data available			
monoethanolamine alkylbenzenesulphonate	LC ₅₀	> 5		Method not given	4
Alcohols, C12-15, ethoxylated		No data available			
glycerol		> 2.75	Rat	Weight of evidence	4 Hrs.
propane-1,2-diol	LC ₅₀	> 317 (mist) No mortality observed	Rabbit	Non guideline test	
3,7-dimethyloctan-3-ol		No data available			
subtilisin		-		Weight of evidence	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
hexyl salicylate		No data available			
d-limonene		No data available			
4-tert-butylcyclohexyl acetate		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
amides, coco, N-(hydroxyethyl)	Not established	Not established	Not established	Not established
monoethanolamine alkylbenzenesulphonate	Not established	Not established	Not established	Not established
Alcohols, C12-15, ethoxylated	Not established	Not established	Not established	Not established
glycerol	Not established	Not established	Not established	Not established
propane-1,2-diol	Not established	Not established	Not established	Not established
3,7-dimethyloctan-3-ol	Not established	Not established	Not established	Not established
subtilisin	Not established	Not established	Not established	Not established

Persil Professional 3PODS

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Not established	Not established	Not established	Not established
hexyl salicylate	Not established	Not established	Not established	Not established
d-limonene	Not established	Not established	Not established	Not established
4-tert-butylcyclohexyl acetate	Not established	Not established	Not established	Not established
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Not established	Not established	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
amides, coco, N-(hydroxyethyl)	No data available			
monoethanolamine alkylbenzenesulphonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
glycerol	Not irritant		OECD 404 (EU B.4)	
propane-1,2-diol	Not irritant	Rabbit	OECD 404 (EU B.4)	
3,7-dimethyloctan-3-ol	No data available			
subtilisin	Mild irritant	Rabbit	OECD 404 (EU B.4)	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
hexyl salicylate	No data available			
d-limonene	Irritant	Rabbit	Method not given	
4-tert-butylcyclohexyl acetate	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
amides, coco, N-(hydroxyethyl)	No data available			
monoethanolamine alkylbenzenesulphonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
glycerol	Not corrosive or irritant		Method not given	
propane-1,2-diol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
3,7-dimethyloctan-3-ol	No data available			
subtilisin	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
hexyl salicylate	No data available			
d-limonene	No data available			
4-tert-butylcyclohexyl acetate	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
amides, coco, N-(hydroxyethyl)	No data available			
monoethanolamine alkylbenzenesulphonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
glycerol	No data available			
propane-1,2-diol	No data available			
3,7-dimethyloctan-3-ol	No data available			
subtilisin	Irritating to respiratory tract			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
hexyl salicylate	No data available			
d-limonene	No data available			
4-tert-butylcyclohexyl acetate	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
amides, coco, N-(hydroxyethyl)	No data available			
monoethanolamine alkylbenzenesulphonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
glycerol	Not sensitising	Human	Human repeated patch test	
propane-1,2-diol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Persil Professional 3PODS

3,7-dimethyloctan-3-ol	No data available			
subtilisin	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
hexyl salicylate	No data available			
d-limonene	Sensitising	Guinea pig	Method not given	
4-tert-butylcyclohexyl acetate	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
amides, coco, N-(hydroxyethyl)	No data available			
monoethanolamine alkylbenzenesulphonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
glycerol	No data available			
propane-1,2-diol	No data available			
3,7-dimethyloctan-3-ol	No data available			
subtilisin	Sensitising		Weight of evidence	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
hexyl salicylate	No data available			
d-limonene	No data available			
4-tert-butylcyclohexyl acetate	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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)
amides, coco, N-(hydroxyethyl)	No data available		No data available	
monoethanolamine alkylbenzenesulphonate	No data available		No data available	
Alcohols, C12-15, ethoxylated	No data available		No data available	
glycerol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
propane-1,2-diol	No evidence for mutagenicity, negative test results	Method not given	No data available	
3,7-dimethyloctan-3-ol	No data available		No data available	
subtilisin	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Chinese Hamster Ovary)	No data available	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		No data available	
hexyl salicylate	No data available		No data available	
d-limonene	No data available		No data available	
4-tert-butylcyclohexyl acetate	No data available		No data available	
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
amides, coco, N-(hydroxyethyl)	No data available
monoethanolamine alkylbenzenesulphonate	No data available
Alcohols, C12-15, ethoxylated	No data available
glycerol	No evidence for carcinogenicity, negative test results
propane-1,2-diol	No evidence for carcinogenicity, negative test results
3,7-dimethyloctan-3-ol	No data available
subtilisin	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
hexyl salicylate	No data available
d-limonene	No data available
4-tert-butylcyclohexyl acetate	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
amides, coco, N-(hydroxyethyl)			No data available				

Persil Professional 3PODS

monoethanolamine alkylbenzenesulphonate			No data available				
Alcohols, C12-15, ethoxylated			No data available				
glycerol			No data available				Not toxic for reproduction
propane-1,2-diol			No data available				No evidence for reproductive toxicity
3,7-dimethyloctan-3-ol			No data available				
subtilisin			No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available				
hexyl salicylate			No data available				
d-limonene			No data available				
4-tert-butylcyclohexyl acetate			No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
amides, coco, N-(hydroxyethyl)		No data available				
monoethanolamine alkylbenzenesulphonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
glycerol		No data available				
propane-1,2-diol		No data available				
3,7-dimethyloctan-3-ol		No data available				
subtilisin		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
hexyl salicylate		No data available				
d-limonene		No data available				
4-tert-butylcyclohexyl acetate		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
amides, coco, N-(hydroxyethyl)		No data available				
monoethanolamine alkylbenzenesulphonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
glycerol		No data available				
propane-1,2-diol		No data available				
3,7-dimethyloctan-3-ol		No data available				
subtilisin		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
hexyl salicylate		No data available				
d-limonene		No data available				
4-tert-butylcyclohexyl acetate		No data available				

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		available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
amides, coco, N-(hydroxyethyl)		No data available				
monoethanolamine alkylbenzenesulphonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
glycerol		No data available				
propane-1,2-diol		No data available				
3,7-dimethyloctan-3-ol		No data available				
subtilisin		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
hexyl salicylate		No data available				
d-limonene		No data available				
4-tert-butylcyclohexyl acetate		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
amides, coco, N-(hydroxyethyl)			No data available					
monoethanolamine alkylbenzenesulphonate			No data available					
Alcohols, C12-15, ethoxylated			No data available					
glycerol			No data available					
propane-1,2-diol			No data available					
3,7-dimethyloctan-3-ol			No data available					
subtilisin			No data available					
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available					
hexyl salicylate			No data available					
d-limonene			No data available					
4-tert-butylcyclohexyl acetate			No data available					
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
amides, coco, N-(hydroxyethyl)	No data available
monoethanolamine alkylbenzenesulphonate	No data available
Alcohols, C12-15, ethoxylated	No data available
glycerol	No data available
propane-1,2-diol	No data available
3,7-dimethyloctan-3-ol	No data available
subtilisin	Respiratory tract
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
hexyl salicylate	No data available
d-limonene	No data available
4-tert-butylcyclohexyl acetate	No data available

Persil Professional 3PODS

1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available
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STOT-repeated exposure

Ingredient(s)	Affected organ(s)
amides, coco, N-(hydroxyethyl)	No data available
monoethanolamine alkylbenzenesulphonate	No data available
Alcohols, C12-15, ethoxylated	No data available
glycerol	No data available
propane-1,2-diol	No data available
3,7-dimethyloctan-3-ol	No data available
subtilisin	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
hexyl salicylate	No data available
d-limonene	No data available
4-tert-butylcyclohexyl acetate	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available

Aspiration hazard

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

Potential adverse health effects and symptoms

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

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

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
amides, coco, N-(hydroxyethyl)		No data available			
monoethanolamine alkylbenzenesulphonate		1.67	<i>Lepomis macrochirus</i>		96 h
Alcohols, C12-15, ethoxylated		No data available			
glycerol	LC ₅₀	54000	<i>Oncorhynchus mykiss</i>	Method not given	96
propane-1,2-diol	LC ₅₀	> 1000	<i>Fish</i>	Method not given	24
3,7-dimethyloctan-3-ol		No data available			
subtilisin	LC ₅₀	8.2	<i>Fish</i>	OECD 203 (EU C.1)	96
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	LC ₅₀	1.3	<i>Lepomis macrochirus</i>	OECD 203, semi-static	96
hexyl salicylate		No data available			
d-limonene	LC ₅₀	0.72	<i>Pimephales promelas</i>	OECD 203 (EU C.1)	96
4-tert-butylcyclohexyl acetate		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
amides, coco, N-(hydroxyethyl)		No data available			
monoethanolamine alkylbenzenesulphonate		No data available			

Persil Professional 3PODS

Alcohols, C12-15, ethoxylated		No data available			
glycerol	EC ₅₀	> 10000	<i>Daphnia magna Straus</i>	Method not given	24
propane-1,2-diol	EC ₅₀	> 100	<i>Daphnia</i>	Method not given	48
3,7-dimethyloctan-3-ol		No data available			
subtilisin	EC ₅₀	0.586	<i>Daphnia</i>	OECD 202 (EU C.2)	48
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC ₅₀	1.38	<i>Daphnia</i>	OECD 202, semi-static	48
hexyl salicylate		No data available			
d-limonene	EC ₅₀	0.36	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
4-tert-butylcyclohexyl acetate		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
amides, coco, N-(hydroxyethyl)		No data available			
monoethanolamine alkylbenzenesulphonate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
glycerol		No data available			
propane-1,2-diol	EC ₅₀	24200	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
3,7-dimethyloctan-3-ol		No data available			
subtilisin	E _r C ₅₀	0.830	<i>Not specified</i>	OECD 201 (EU C.3)	72
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC ₅₀	> 2.6	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
hexyl salicylate		No data available			
d-limonene	E _r C ₅₀	150	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
4-tert-butylcyclohexyl acetate		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
amides, coco, N-(hydroxyethyl)		No data available			
monoethanolamine alkylbenzenesulphonate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
glycerol		No data available			
propane-1,2-diol		No data available			
3,7-dimethyloctan-3-ol		No data available			
subtilisin		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
hexyl salicylate		No data available			
d-limonene		No data available			
4-tert-butylcyclohexyl acetate		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
amides, coco, N-(hydroxyethyl)		No data available			
monoethanolamine alkylbenzenesulphonate		No data			

Persil Professional 3PODS

		available			
Alcohols, C12-15, ethoxylated		No data available			
glycerol	EC ₅₀	> 10000	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
propane-1,2-diol	EC ₀	> 20000	<i>Pseudomonas putida</i>	Method not given	18 hour(s)
3,7-dimethyloctan-3-ol		No data available			
subtilisin		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
hexyl salicylate		No data available			
d-limonene		No data available			
4-tert-butylcyclohexyl acetate		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
amides, coco, N-(hydroxyethyl)		No data available				
monoethanolamine alkylbenzenesulphonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
glycerol		No data available				
propane-1,2-diol		No data available				
3,7-dimethyloctan-3-ol		No data available				
subtilisin		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
hexyl salicylate		No data available				
d-limonene		No data available				
4-tert-butylcyclohexyl acetate		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
amides, coco, N-(hydroxyethyl)		No data available				
monoethanolamine alkylbenzenesulphonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
glycerol		No data available				
propane-1,2-diol	NOEC	13020	<i>Ceriodaphnia dubia</i>	Method not given	7 day(s)	
3,7-dimethyloctan-3-ol		No data available				
subtilisin		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
hexyl salicylate		No data available				
d-limonene		No data available				
4-tert-butylcyclohexyl acetate		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				

Persil Professional 3PODS

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
amides, coco, N-(hydroxyethyl)		No data available				
monoethanolamine alkylbenzenesulphonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
glycerol		No data available				
propane-1,2-diol		No data available				
3,7-dimethyloctan-3-ol		No data available				
subtilisin		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
hexyl salicylate		No data available				
d-limonene		No data available				
4-tert-butylcyclohexyl acetate		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
amides, coco, N-(hydroxyethyl)					No data available
monoethanolamine alkylbenzenesulphonate			90%	OECD 301B	Readily biodegradable
Alcohols, C12-15, ethoxylated					No data available
glycerol			60% in 28 day(s)	Method not given	Readily biodegradable
propane-1,2-diol			> 70 % in 28 day(s)	OECD 301A	Readily biodegradable
3,7-dimethyloctan-3-ol					Readily biodegradable
subtilisin				OECD 301B	Readily biodegradable
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					Not readily biodegradable.
hexyl salicylate				OECD 301F	Readily biodegradable
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
4-tert-butylcyclohexyl acetate				OECD 301B	Readily biodegradable
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

Persil Professional 3PODS

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
amides, coco, N-(hydroxyethyl)	No data available			
monoethanolamine alkylbenzenesulphonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
glycerol	-1.76	Method not given	No bioaccumulation expected	
propane-1,2-diol	-1.07	Method not given	No bioaccumulation expected	
3,7-dimethyloctan-3-ol	No data available			
subtilisin	< 0			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
hexyl salicylate	No data available			
d-limonene	No data available		High potential for bioaccumulation	
4-tert-butylcyclohexyl acetate	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
amides, coco, N-(hydroxyethyl)	No data available				
monoethanolamine alkylbenzenesulphonate	No data available				
Alcohols, C12-15, ethoxylated	No data available				
glycerol	No data available				
propane-1,2-diol	No data available				
3,7-dimethyloctan-3-ol	No data available				
subtilisin	-			Not relevant, does not bioaccumulate	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available				
hexyl salicylate	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
4-tert-butylcyclohexyl acetate	No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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
amides, coco, N-(hydroxyethyl)	No data available				
monoethanolamine alkylbenzenesulphonate	No data available				
Alcohols, C12-15, ethoxylated	No data available				
glycerol	No data available				Potential for mobility in soil, soluble in water
propane-1,2-diol	No data available				Potential for mobility in soil, soluble in water
3,7-dimethyloctan-3-ol	No data available				
subtilisin	No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available				
hexyl salicylate	No data available				
d-limonene	No data available				High potential for mobility in soil
4-tert-butylcyclohexyl acetate	No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

Persil Professional 3PODS

12.7 Other adverse effects

No other adverse effects known.

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

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

European Waste Catalogue:

20 01 29* - detergents containing dangerous substances.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

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

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

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

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

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

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605

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

Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants, anionic surfactants, soap

15 - 30 %

phosphonates, polycarboxylates

< 5 %

perfumes, enzymes, Limonene, optical brighteners, Benzyl Benzoate, Geraniol, Linalool

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

Seveso - Classification: Not classified

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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Persil Professional 3PODS**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:

- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 - May cause respiratory irritation.
- 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
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organization for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

End of Safety Data Sheet