

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Persil Professional Biological Liquid

Revision: 2023-12-10

Version: 16.2

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

1.1 Product identifier

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

UFI: CFM5-803P-Y00H-U2JV

1.2 Relevant identified uses of the substance or mixture and uses advised against Product use: Laundry detergent.

Uses advised against:

Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8a_1 PC35-Washing and cleaning products AISE_SWED_PW_1_1 AISE_SWED_PW_4_1 AISE_SWED_PW_49_1 PC35-Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

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

Contact details

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye irritation, Category 2 (H319) Skin sensitisation, Category 1 (H317) Chronic aquatic toxicity, Category 3 (H412)

2.2 Label elements



Signal word: Warning.

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

Hazard statements:

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

Precautionary statements:

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

P102 - Keep out of reach of children.

P280 - Wear protective gloves.

P501 - Dispose of unused content as chemical waste.

Further indications on the label: Contains: preservative.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
sodium alkylbenzenesulphonate	270-115-0	68411-30-3	8-22	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		1-3
Dodecan-1-ol, ethoxylated (7EO)	[4]	3055-97-8		Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		1-3
alcohols, C12-14, ethoxylated, sulphates, sodium salts	500-234-8	68891-38-3	01-211948863 9-16	Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		1-3
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	270-116-6	68411-31-4	-	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		1-3
2-methyl-2H-isothiazol-3-one	220-239-6	2682-20-4		Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Skin corrosion, Category 1B (H314) Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1 (H317) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=10 (H410)		< 0.01
3(2H)-Isothiazolone, 2-octyl-	247-761-7	26530-20-1		Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Skin corrosion, Category 1B (H314) Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=100 (H400) Chronic aquatic toxicity, Category 1 M=100 (H410)		< 0.01

Specific concentration limits

2-methyl-2H-isothiazol-3-one:

Skin sensitisation, Category 1 (H317) >= 0.0015%

3(2H)-Isothiazolone, 2-octyl-: • Skin sensitisation, Category 1 (H317) >= 0.0015%

SECTION 4: First aid measures

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

ATE, if available, are listed in section 11.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

4.1 Description of first aid measures General Information:	Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.
Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	No known effects or symptoms in normal use.
Skin contact:	May cause an allergic skin reaction.
Eye contact:	Causes severe irritation.
Ingestion:	No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable gloves.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment: For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

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

7.2 Conditions for safe storage, including any incompatibilities

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

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

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

DNEL/DMEL and **PNEC** values

Human exposure DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium alkylbenzenesulphonate	-	-	-	0.425
Dodecan-1-ol, ethoxylated (7EO)	No data available	No data available	No data available	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	15
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	0.027
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sodium alkylbenzenesulphonate	-	-	-	119
Dodecan-1-ol, ethoxylated (7EO)	No data available	No data available	No data available	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	2750
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)		Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
sodium alkylbenzenesulphonate	-	-	-	42.5
Dodecan-1-ol, ethoxylated (7EO)	No data available	No data available	No data available	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	1650
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with	No data available	No data available	No data available	No data available
triethanolamine				
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)		Short term - Systemic	•	Long term - Systemic
	effects	effects	effects	effects
sodium alkylbenzenesulphonate	-	-	-	6
Dodecan-1-ol, ethoxylated (7EO)	No data available	No data available	No data available	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	175
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium alkylbenzenesulphonate	-	-	-	1.5
Dodecan-1-ol, ethoxylated (7EO)	No data available	No data available	No data available	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	52
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
sodium alkylbenzenesulphonate	0.268	0.0268	0.0167	3.43
Dodecan-1-ol, ethoxylated (7EO)	No data available	No data available	No data available	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	0.24	0.024	0.071	10000
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium alkylbenzenesulphonate	8.1	6.8	35	-
Dodecan-1-ol, ethoxylated (7EO)	No data available	No data available	No data available	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	5.45	0.545	0.946	-
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available	No data available	No data available	No data available
2-methyl-2H-isothiazol-3-one	-	-	-	-
3(2H)-Isothiazolone, 2-octyl-	No data available	No data available	No data available	No data available

8.2 Exposure controls

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 <u>undiluted</u> product:

Appropriate engineering controls:

Appropriate organisational controls:

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

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific	LCS	PROC	Duration	ERC
	worker exposure			(min)	
	description				
PC35-Washing and cleaning products	PC35-Washing and	С		-	ERC8a
	cleaning products				
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 16321 / EN 166).
Hand protection:	Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
	Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
	In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions.
Environmental exposure controls:	No special requirements under normal use conditions.

Recommended safety measures for handling the <u>diluted</u> product:

Recommended maximum concentration (% w/w): 1

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

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration	ERC
				(min)	
PC35-Washing and cleaning products	PC35-Washing and	С	-	-	ERC8a
	cleaning products				
Automatic application in a dedicated closed system	AISE_SWED_PW_1_1	PW	PROC 1	480	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: Hand protection: Body protection: Respiratory protection:

No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions. 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

Physical state: Liquid Colour: Hazy , Dark , Green Blue 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 of	data,	boiling	point
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Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium alkylbenzenesulphonate	No data available		
Dodecan-1-ol, ethoxylated (7EO)	No data available		
alcohols, C12-14, ethoxylated, sulphates, sodium salts	> 100	Method not given	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		

Flammability (solid, gas): Not applicable to liquids Flammability (liquid): Not flammable. Flash point (°C): Not determined Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

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

Substance data, flammability or explosive limits, if available:

Autoignition temperature: Not determined Decomposition temperature: Not applicable. pH: ≈ 8 (neat) Dilution pH: ≈ 8 (1 %) Kinematic viscosity: Not determined Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium alkylbenzenesulphonate	> 250		
Dodecan-1-ol, ethoxylated (7EO)	No data available		
alcohols, C12-14, ethoxylated, sulphates, sodium salts	280 Soluble	Method not given	20
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	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

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium alkylbenzenesulphonate	No data available		
Dodecan-1-ol, ethoxylated (7EO)	No data available		
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available		
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		

Safety Data Sheet

Method / remark

Method / remark

Method / remark

Method / remark See substance data

ISO 4316 ISO 4316 DM-006 Viscosity - Standard Relative density: ≈ 1.02 (20 °C) Relative vapour density: No data available. Particle characteristics: No data available.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Eye irritation and corrosivityResult: Eye irritant 2Method: Weight of evidence

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

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
sodium alkylbenzenesulphonate	LD 50	1080	Rat	OECD 401 (EU B.1)		1080
Dodecan-1-ol, ethoxylated (7EO)	LD 50	> 500 - <2000	Rat	Method not given		Not established
alcohols, C12-14, ethoxylated, sulphates, sodium salts	LD 50	> 2000	Rat	OECD 401 (EU B.1)		Not established
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				Not established
2-methyl-2H-isothiazol-3-one	LD 50	120	Rat	OECD 401 (EU B.1)		120
3(2H)-Isothiazolone, 2-octyl-		No data available				125

Acute dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	ATE Dermal
		(mg/kg)			time (h)	(mg/kg)
sodium alkylbenzenesulphonate	LD 50	> 2000	Rat	OECD 402 (EU B.3)		Not established
Dodecan-1-ol, ethoxylated (7EO)		No data available				Not established
alcohols, C12-14, ethoxylated, sulphates, sodium salts	LD 50	> 2000	Rat	OECD 402 (EU B.3)		Not established
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds		No data				Not established

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

with triethanolamine		available				
2-methyl-2H-isothiazol-3-one	LD 50	242	Rat	OECD 402 (EU B.3)	24 hours	242
3(2H)-Isothiazolone, 2-octyl-		No data				311
		available				

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate		No data available			
Dodecan-1-ol, ethoxylated (7EO)		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts		5.71			
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
2-methyl-2H-isothiazol-3-one	LC 50	(mist) 0.11	Rat	OECD 403 (EU B.2)	4 hours
3(2H)-Isothiazolone, 2-octyl-		No data available			

	inhalativa	toxicity	continued
Acute	IIIIIalalive	luxicity,	continueu

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
sodium alkylbenzenesulphonate	Not established	Not established	Not established	Not established
Dodecan-1-ol, ethoxylated (7EO)	Not established	Not established	Not established	Not established
alcohols, C12-14, ethoxylated, sulphates, sodium salts	Not established	Not established	Not established	Not established
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	Not established	Not established	Not established	Not established
2-methyl-2H-isothiazol-3-one	Not established	0.11	Not established	Not established
3(2H)-Isothiazolone, 2-octyl-	Not established	Not established	Not established	Not established

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium alkylbenzenesulphonate	Irritant	Rabbit	OECD 404 (EU B.4)	
Dodecan-1-ol, ethoxylated (7EO)	No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4)	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
2-methyl-2H-isothiazol-3-one	Corrosive			
3(2H)-Isothiazolone, 2-octyl-	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium alkylbenzenesulphonate	Corrosive	Rabbit	OECD 405 (EU B.5)	
Dodecan-1-ol, ethoxylated (7EO)	Severe damage			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	Severe damage	Rabbit	OECD 405 (EU B.5)	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium alkylbenzenesulphonate	Not irritating to			
	respiratory tract			
Dodecan-1-ol, ethoxylated (7EO)	No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available			
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			

Sensitisation Sensitisation by skin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Dodecan-1-ol, ethoxylated (7EO)	No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with	No data available			

triethanolamine			
2-methyl-2H-isothiazol-3-one	Sensitising	Guinea pig	
3(2H)-Isothiazolone, 2-octyl-	No data available		

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium alkylbenzenesulphonate	No data available			
Dodecan-1-ol, ethoxylated (7EO)	No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available			
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
2-methyl-2H-isothiazol-3-one	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sodium alkylbenzenesulphonate		OECD 471 (EU B.12/13) OECD 476 OECD 473		
Dodecan-1-ol, ethoxylated (7EO)	No data available		No data available	
alcohols, C12-14, ethoxylated, sulphates, sodium salts		OECD 471 (EU B.12/13) OECD 476		OECD 475 (EU B.11)
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available		No data available	
2-methyl-2H-isothiazol-3-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
3(2H)-Isothiazolone, 2-octyl-	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium alkylbenzenesulphonate	No data available
Dodecan-1-ol, ethoxylated (7EO)	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No evidence for carcinogenicity, weight-of-evidence
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	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
sodium alkylbenzenesulphonat e	NOAEL	Teratogenic effects	300	Rat	Non guideline test		No known significant effects or critical hazards
Dodecan-1-ol, ethoxylated (7EO)			No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOAEL	Developmental toxicity	> 1000	Rat	OECD 414 (EU B.31), oral		No evidence for reproductive toxicity
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine			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	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium alkylbenzenesulphonate		No data				
		available				
Dodecan-1-ol, ethoxylated (7EO)		No data				
		available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOAEL	> 225		OECD 408 (EU	90	
				B.26)		
Benzenesulfonic acid, C10-13-alkyl derivatives,		No data				
compounds with triethanolamine		available				
2-methyl-2H-isothiazol-3-one		No data				
		available				

3(2H)-Isothiazolone, 2-octyl-	No data		
	available		

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium alkylbenzenesulphonate		No data available				
Dodecan-1-ol, ethoxylated (7EO)		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts		No data available				
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium alkylbenzenesulphonate		No data available				
Dodecan-1-ol, ethoxylated (7EO)		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts		No data available				
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
sodium alkylbenzenesulphonat e			No data available					
Dodecan-1-ol, ethoxylated (7EO)			No data available					
alcohols, C12-14, ethoxylated, sulphates, sodium salts			No data available					
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine			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)
sodium alkylbenzenesulphonate	Not applicable
Dodecan-1-ol, ethoxylated (7EO)	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available
2-methyl-2H-isothiazol-3-one	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium alkylbenzenesulphonate	Not applicable
Dodecan-1-ol, ethoxylated (7EO)	No data available
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available
2-methyl-2H-isothiazol-3-one	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available

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

Potential adverse health effects and symptoms

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

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

Aquatic short-term toxicity Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	LC 50	1.67	Fish	EPA-OPPTS 850.1075	96
Dodecan-1-ol, ethoxylated (7EO)		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	LC 50	7.1	Fish	OECD 203 (EU C.1)	96
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
2-methyl-2H-isothiazol-3-one	LC 50	4.77	Oncorhynchus mykiss	Similar to OECD 203	96
3(2H)-Isothiazolone, 2-octyl-	LC 50	0.122			

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	LC 50	2.9	Daphnia	OECD 202 (EU C.2)	48
Dodecan-1-ol, ethoxylated (7EO)		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	EC 50	7.4	Daphnia magna Straus	OECD 202 (EU C.2)	48
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
2-methyl-2H-isothiazol-3-one	LC 50	0.93-1.9	Daphnia magna Straus	Method not given	48
3(2H)-Isothiazolone, 2-octyl-	LC 50	0.181			

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	E b C 50	47.3	Not specified	Non guideline test	72
Dodecan-1-ol, ethoxylated (7EO)		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	EC 50	10 - 100	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
2-methyl-2H-isothiazol-3-one	EC 50	0.158	Selenastrum capricornutum	Method not given	72
3(2H)-Isothiazolone, 2-octyl-	EC 50	0.15			

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium alkylbenzenesulphonate		No data available			
Dodecan-1-ol, ethoxylated (7EO)		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts		No data available			
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
2-methyl-2H-isothiazol-3-one		No data			

	available		
3(2H)-Isothiazolone, 2-octyl-	No data		
	available		

Ingredient(s)	Endpoint	Value	Inoculum	Method	Exposure
		(mg/l)			time
sodium alkylbenzenesulphonate	EC 50	550	Bacteria	OECD 209	3 hour(s)
Dodecan-1-ol, ethoxylated (7EO)		No data			
		available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	EC o	> 100		DIN 38412, Part 27	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with		No data			
triethanolamine		available			
2-methyl-2H-isothiazol-3-one	EC 20	2.8	Activated	OECD 209	3 hour(s)
·			sludge		
3(2H)-Isothiazolone, 2-octyl-		No data			
		available			

Aquatic long-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium alkylbenzenesulphonate	NOEC	0.23	Oncorhynchus mykiss	Method not given	72 day(s)	
Dodecan-1-ol, ethoxylated (7EO)		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOEC	1 - 10	Not specified	OECD 203	45 day(s)	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium alkylbenzenesulphonate	NOEC	1.41	Daphnia magna	OECD 211		
Dodecan-1-ol, ethoxylated (7EO)		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOEC	0.27	Daphnia sp.	OECD 211	21 day(s)	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium alkylbenzenesulphonate		No data available				
Dodecan-1-ol, ethoxylated (7EO)		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts		No data available				
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available				
2-methyl-2H-isothiazol-3-one		No data available				
3(2H)-Isothiazolone, 2-octyl-		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:

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium alkylbenzenesulphonate	Activated sludge, aerobe	CO ₂ production	85 % in 28 day(s)	OECD 301B	Readily biodegradable
Dodecan-1-ol, ethoxylated (7EO)					Readily biodegradable
alcohols, C12-14, ethoxylated, sulphates, sodium salts		CO ₂ production	77-79 % in 28 day(s)	OECD 301D	Readily biodegradable
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine					Readily biodegradable
2-methyl-2H-isothiazol-3-one				Other	Readily biodegradable
3(2H)-Isothiazolone, 2-octyl-				Weight of evidence	Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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

12.3 Bioaccumulative potential Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium alkylbenzenesulphonate	3.32	Method not given	Low potential for bioaccumulation	
Dodecan-1-ol, ethoxylated (7EO)	No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	0.3	Method not given	No bioaccumulation expected	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available			
2-methyl-2H-isothiazol-3-one	-0.32	OECD 107	No bioaccumulation expected	
3(2H)-Isothiazolone, 2-octyl-	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium alkylbenzenesulphonat e	2-1000		Method not given	High potential for bioaccumulation	
Dodecan-1-ol, ethoxylated (7EO)	No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	< 3		Method not given	No bioaccumulation expected	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available				
2-methyl-2H-isothiazol- 3-one	3.16		OECD 305		
3(2H)-Isothiazolone, 2-octyl-	No data available				

12.4 Mobility in soil Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sodium alkylbenzenesulphonate	No data available				
Dodecan-1-ol, ethoxylated (7EO)	No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available				

Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	No data available		
2-methyl-2H-isothiazol-3-one	No data available		
3(2H)-Isothiazolone, 2-octyl-	No data available		

12.5 Results of PBT and vPvB assessment Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

European Waste Catalogue:

Empty packaging Recommendation: Suitable cleaning agents:

Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

20 01 29* - detergents containing dangerous substances.

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.

SECTION 14: Transport information

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

14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments: Non-dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations :

• Regulation (EC) 1907/2006 - REACH (UK amended)

Regulation (EC) 1272/2008 - CLP (UK amended)

- Regulation (EC) 648/2004 Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

Ingredients according to Detergents Regulation	
anionic surfactants	5 - 15 %
non-ionic surfactants, soap, polycarboxylates	< 5 %
perfumes, optical brighteners, Limonene, Citronellol, Methylisothiazolinone, enzymes,	
Octylisothiazolinone	

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Comah - 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

SDS code: MSDS5812

Version: 16.2

Revision: 2023-12-10

Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 4, 8, 9, 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.

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 Organisation 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 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.
- H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet