



Persil Professional Non Biological Liquid

Revision: 2023-02-22

Version: 12.1

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

1.1 Product identifier

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

UFI: TVP5-E0ET-J00C-CMVP

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_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

Eye Irrit. 2 (H319)
Skin Sens. 1 (H317)
Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Warning.

Contains 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), isoeugenol (Isoeugenol), 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.

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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	01-2119489428-22	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10
Dodecan-1-ol, ethoxylated (7EO)	[4]	3055-97-8	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10
alcohols, C12-14, ethoxylated, sulphates, sodium salts	500-234-8	68891-38-3	01-2119488639-16	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine	270-116-6	68411-31-4	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		1-3
2-methyl-2H-isothiazol-3-one	220-239-6	2682-20-4	[6]	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 M=10 (H400) Aquatic Chronic 1 (H410)		< 0.01
3(2H)-Isothiazolone, 2-octyl-	247-761-7	26530-20-1	-	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 M=100 (H400) Aquatic Chronic 1 M=100 (H410)		< 0.01
isoeugenol	202-590-7	97-54-1	01-2120223682-61	Skin Sens. 1A (H317)		< 0.01

Specific concentration limits

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

- Skin Sens. 1 (H317) \geq 0.0015%

3(2H)-Isothiazolone, 2-octyl-:

- Skin Sens. 1 (H317) \geq 0.0015%

isoeugenol:

- Skin Sens. 1 (H317) \geq 0.01%

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..

SECTION 4: First aid measures**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

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Eye contact:	or attention. 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, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless advised 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**

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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
isoeugenol	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
isoeugenol	No data available	No data available	No data available	No data available

DNEL/DMEL 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)
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 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
isoeugenol	No data available	No data available	No data available	No data available

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic 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
isoeugenol	No data available	No data available	No data available	No data available

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

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
isoeugenol	No data available	No data available	No data available	No data available

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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)
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
isoeugenol	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)
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
isoeugenol	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:** 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.
- 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:

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): 0.74

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:

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	SWED	LCS	PROC	Duration (min)	ERC
PC35-Washing and cleaning products	PC35-Washing and cleaning products	C	-	-	ERC8a
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: 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: Opaque , White

Odour: Product specific

Odour threshold: Not applicable

Melting point/freezing point (°C): Not determined

Not relevant to classification of this product

Initial boiling point and boiling range (°C): Not determined

See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
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		
isoeugenol	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:

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

pH: ≈ 8 (neat)

ISO 4316

Dilution pH: ≈ 8 (0.74 %)

ISO 4316

Kinematic viscosity: =<

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		
isoeugenol	No data available		

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

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Vapour pressure: Not determined

Method / remark
See substance data

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		
isoeugenol	No data available		

Relative density: ≈ 1.03 (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 hazard classes as defined in Regulation (EC) No 1272/2008

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Skin irritation and corrosivity

Result: Not corrosive or irritant **Method:** Weight of evidence

Eye irritation and corrosivity

Result: Eye irritant 2 **Species:** Not applicable. **Method:** Weight of evidence

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	ATE
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		(mg/kg)			time (h)	(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
isoeugenol		No data available				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (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 with triethanolamine		No data available				Not established
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 available				311
isoeugenol		No data available				Not established

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			
isoeugenol		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)
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
isoeugenol	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			
isoeugenol	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)	

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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			
isoeugenol	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			
isoeugenol	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 triethanolamine	No data available			
2-methyl-2H-isothiazol-3-one	Sensitising	Guinea pig		
3(2H)-Isothiazolone, 2-octyl-	No data available			
isoeugenol	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			
isoeugenol	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	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 OECD 473	No data available	
Dodecan-1-ol, ethoxylated (7EO)	No data available		No data available	
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476	No evidence for mutagenicity, negative test results	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	
isoeugenol	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
isoeugenol	No data available

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Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium alkylbenzenesulphonate	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				
isoeugenol			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
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 B.26)	90	
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				
isoeugenol		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				
isoeugenol		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				
isoeugenol		No data available				

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Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
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					
isoeugenol			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
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
isoeugenol	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
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
isoeugenol	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		No data			

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triethanolamine		available			
2-methyl-2H-isothiazol-3-one	LC ₅₀	4.77	<i>Oncorhynchus mykiss</i>	Similar to OECD 203	96
3(2H)-isothiazolone, 2-octyl-	LC ₅₀	0.122			
isoeugenol		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	LC ₅₀	2.9	<i>Daphnia</i>	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	<i>Daphnia magna Straus</i>	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	<i>Daphnia magna Straus</i>	Method not given	48
3(2H)-isothiazolone, 2-octyl-	LC ₅₀	0.181			
isoeugenol		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	E _b C ₅₀	47.3	<i>Not specified</i>	Non guideline test	72
Dodecan-1-ol, ethoxylated (7EO)		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	EC ₅₀	10 - 100	<i>Pseudokirchneriella subcapitata</i>	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	<i>Selenastrum capricornutum</i>	Method not given	72
3(2H)-isothiazolone, 2-octyl-	EC ₅₀	0.15			
isoeugenol		No data available			

Aquatic short-term toxicity - marine species

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			
isoeugenol		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium alkylbenzenesulphonate	EC ₅₀	550	<i>Bacteria</i>	OECD 209	3 hour(s)
Dodecan-1-ol, ethoxylated (7EO)		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	EC ₀	> 100		DIN 38412, Part 27	
Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine		No data available			
2-methyl-2H-isothiazol-3-one	EC ₂₀	2.8	<i>Activated sludge</i>	OECD 209	3 hour(s)
3(2H)-isothiazolone, 2-octyl-		No data available			
isoeugenol		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium alkylbenzenesulphonate	NOEC	0.23	<i>Oncorhynchus mykiss</i>	Method not given	72 day(s)	
Dodecan-1-ol, ethoxylated (7EO)		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOEC	1 - 10	<i>Not specified</i>	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				
isoeugenol		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	<i>Daphnia magna</i>	OECD 211		
Dodecan-1-ol, ethoxylated (7EO)		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOEC	0.27	<i>Daphnia sp.</i>	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				
isoeugenol		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				
isoeugenol		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

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Ready biodegradability - aerobic conditions

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.
isoeugenol		Oxygen depletion	79% in 28 day(s)	OECD 301F	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
2-methyl-2H-isothiazol-3-one	Surface water (fresh)	Mineralisation rate	> 50 % in 4 day(s)	OECD 309	Biodegradable

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
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			
isoeugenol	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium alkylbenzenesulphonate	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				
isoeugenol	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
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				
isoeugenol	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.

Persil Professional Non Biological Liquid**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:**

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 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, phosphonates, polycarboxylates

< 5 %

perfumes , Methylisothiazolinone, Octylisothiazolinone, optical brighteners

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: MSDS5991

Version: 12.1

Revision: 2023-02-22

Reason for revision:

Persil Professional Non Biological Liquid

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):, 1, 3, 4, 9, 11, 12, 16

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the H and EUH phrases mentioned in section 3:

- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- 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.

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

End of Safety Data Sheet