Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET

Persil Bio Professional Concentrate

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

1.1 Product identifier

Product name	:	Persil Bio Professional Concentrate
Product code	:	200000290591;64940227_S, 64931903
Product description	:	Fabric washing Liquid
Product type	:	liquid
UFI code	:	7PHS-500K-D001-GKMP
Nanomaterials	:	None

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

Identified uses
Fabric washing Liquid Consumer uses Professional uses PROC 8a Transfer of product to a container (bottle/bucket/machine) PROC 4 Semi-closed system

Uses advised against	**Reason**
Not applicable.	-

1.3 Details of the supplier of the safety data sheet

Unilever UK Ltd (UPro)

___
Kingston upon Thames
UNITED KINGDOM
KT1 2BA
Tel: 01604 405311
-

e-mail address of person responsible for this SDS : UPROSDS.Requests@unilever.com

National contact

Not available.

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : Not applicable in United Kingdom and Ireland

Supplier

Telephone number : -
Hours of operation : -
Information limitations : Not available.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 0 %
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 0 %
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 0 %

Ingredients of unknown ecotoxicity : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 0 %

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Warning
Hazard statements : H319 Causes serious eye irritation.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

General : P102 Keep out of reach of children.
Prevention : P273 Avoid release to the environment.

Response	:	P305 IF IN EYES: P351 Rinse cautiously with water for several minutes. P338 Remove contact lenses, if present and easy to do. Continue rinsing. P302 IF ON SKIN: P352 Wash with plenty of water. P337 If eye irritation persists: P332 If skin irritation occurs: P313 Get medical advice/attention.
Storage	:	- Not applicable.
Disposal	:	P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Contains Benzisothiazolinone, ISOEUGENOL, May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirements		
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	Not applicable
3.2 Mixtures	:	Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
TEA-Dodecylbenzenesulfonate	EC : 248-406-9 CAS : 68411-31-4	>= 10 - <= 25	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 1,080 mg/kg	[1]
Sodium Laureth Sulfate	RRN : 01-2119488639-16	> 0 - <= 10	Skin Irrit. 2, H315 Eye Dam. 1, H318	Eye Dam. 1, H318: >= 10 % Eye Irrit. 2, H319: 5 - < 10 %	[1]

	EC : 500-234-8 CAS : 68891-38-3		Aquatic Chronic 3, H412		
Laureth-7	EC : 931-014-3 CAS : 68439-50-9	> 0 - <= 10	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 1,700 mg/kg	[1]
TEA-Etidronate	RRN : 01-2119647955-23 EC : 223-267-7 CAS : 3794-83-0	> 0 - <= 5	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE [Oral] = 940 mg/kg Eye Irrit. 2, H319: >= 30 %	[1]
Glycerin	RRN : 01-2119471987-18 EC : 200-289-5 CAS : 56-81-5	> 0 - <= 1	Not classified.	-	[2]
Subtilisin	RRN : 01-2119480434-38 EC : 232-752-2 CAS : 9014-01-1 Index: 647-012-00-8	> 0 - <= 0.1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 (Respiratory tract irritation)	-	[1] [2]
Sodium hydroxide	RRN : 01-2119457892-27 EC : 215-185-5 CAS : 1310-73-2 Index: 011-002-00-6	> 0 - <= 0.1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318	Skin Corr. 1A, H314: >= 5 % Skin Corr. 1B, H314: 2 - < 5 % Skin Irrit. 2, H315: 0.5 - < 2 % Eye Dam. 1, H318: >= 2 % Eye Irrit. 2, H319: 0.5 - < 2 %	[1] [2]
Diphenyl ether	RRN : 01-2119472545-33 EC : 202-981-2 CAS : 101-84-8	> 0 - < 0.1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1] [2]
Silica	RRN : 01-2119379499-16 EC : 231-545-4 CAS : 112945-52-5	> 0 - <= 0.1	Not classified.	-	[2]
Methyl Alcohol	RRN : 01-2119433307-44 EC : 200-659-6 CAS : 67-56-1 Index: 603-001-00-X	> 0 - < 0.1	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (central nervous system (CNS), optic nerve)	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: >= 10 % STOT SE 2, H371: 3 - < 10 %	[1] [2]
Glutaral	RRN : 01-2119455549-26 EC : 203-856-5 CAS : 111-30-8 Index: 605-022-00-X	> 0 - < 0.1	Acute Tox. 3, H301 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317	ATE [Oral] = 77 mg/kg ATE [Inhalation (dusts and mists)] = 0.28 mg/l M [Acute] = 1	[1] [2]

			STOT SE 3, H335 (Respiratory tract irritation) Aquatic Acute 1, H400 Aquatic Chronic 2, H411		
Benzisothiazolinone	RRN : 01-2120761540-60 EC : 220-120-9 CAS : 2634-33-5 Index: 613-088-00-6	> 0 - < 0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: >= 0.036 % M [Acute] = 1 M [Chronic] = 1	[1]
ISOEUGENOL	RRN : 01-2120223682-61 EC : 202-590-7 CAS : 97-54-1 Index: 604-094-00-X	> 0 - < 0.01	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 STOT SE 3, H335 (Respiratory tract irritation)	ATE [Oral] = 542 mg/kg ATE [Dermal] = 1,912 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l Skin Sens. 1A, H317: >= 0.01 %	[1]

See Section 16 for the full text of the H statements declared above.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact :

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion	:	Get medical attention immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	Adverse symptoms may include the following: redness, irritation
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: redness, irritation
Ingestion	:	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Not relevant for these kind of mixtures

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Not applicable.

7.3 Specific end use(s)

Recommendations	:	Not available.
Industrial sector specific solutions	:	Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Glutaral	**EH40/2005 WELs (1997-01-01). Inhalation sensitizer.** STEL 0.2 mg/m3 0.05 ppm

	TWA 0.2 mg/m3 0.05 ppm
Glycerin	**EH40/2005 WELs (1997-01-01).** TWA 10 mg/m3 Form: Mist
Subtilisin	**EH40/2005 WELs (2005-04-06). Inhalation sensitizer.** TWA 0.00004 mg/m3
Sodium hydroxide	**EH40/2005 WELs (1997-01-01).** STEL 2 mg/m3
Diphenyl ether	**EU OEL (2017-02-21). [Diphenyl ether]** STEL 14 mg/m3 2 ppm TWA 7 mg/m3 1 ppm **EH40/2005 WELs (1997-01-01).** TWA 7 mg/m3 1 ppm **EH40/2005 WELs (2018-08-21).** STEL 14 mg/m3 2 ppm
Silica	**EH40/2005 WELs (1997-01-01).** TWA 6 mg/m3 Form: inhalable dust TWA 2.4 mg/m3 Form: Respirable dust
Methyl Alcohol	**EU OEL (2006-02-01). [methanol] Absorbed through skin..** TWA 260 mg/m3 200 ppm **EH40/2005 WELs (1997-01-01). Absorbed through skin..** STEL 333 mg/m3 250 ppm TWA 266 mg/m3 200 ppm

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Product/ingredient name	Type	Exposure	Value	Population	Effects
Sodium Laureth Sulfate	DNEL	Long term Inhalation	175 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	52 mg/m³	General population [Human via the environment]	Systemic

	DNEL	Long term Dermal	2750 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	132 µg/cm²	Workers	Local
	DNEL	Long term Dermal	1650 mg/kg bw/day	General population [Human via the environment]	Systemic
	DNEL	Long term Dermal	79 µg/cm²	General population [Human via the environment]	Local
	DNEL	Long term Oral	15 mg/kg bw/day	General population [Human via the environment]	Systemic
Laureth-7	DNEL	Long term Inhalation	19.6 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	187 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.48 mg/m³	General population	Systemic
	DNEL	Long term Dermal	66.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	1.33 mg/kg bw/day	General population	Systemic
TEA-Etidronate	DNEL	Long term Oral	2.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	48 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	24 mg/kg bw/day	General population	Systemic
Subtilisin	DNEL	Long term Inhalation	15 ng/m³	General population	Local
	DNEL	Long term Oral	1.8 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	3.6 mg/kg bw/day	General population	Systemic
Benzisothiazolinone	DNEL	Long term Inhalation	6.81 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	966 µg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m³	General population	Systemic
	DNEL	Long term Dermal	345 µg/kg bw/day	General population	Systemic
Sodium hydroxide	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m³	General population	Local
Diphenyl ether	DNEL	Long term Inhalation	59 mg/m³	Workers	Systemic

	DNEL	Long term Inhalation	7 mg/m³	Workers	Local
	DNEL	Short term Inhalation	14 mg/m³	Workers	Local
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
Methyl Alcohol	DNEL	Long term Inhalation	130 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	130 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	130 mg/m³	Workers	Local
	DNEL	Short term Inhalation	130 mg/m³	Workers	Local
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	26 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	26 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	26 mg/m³	General population	Local
	DNEL	Short term Inhalation	26 mg/m³	General population	Local
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	4 mg/kg bw/day	General population	Systemic
Glutaral	DNEL	Long term Inhalation	210 µg/m³	Workers	Local
	DNEL	Long term Dermal	420 µg/m³	Workers	Local
	DNEL	Long term Inhalation	6.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	70 µg/kg bw/day	General population	Systemic

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
Sodium Laureth Sulfate	PNEC	Fresh water	240 µg/l	-
	PNEC	Freshwater - intermittent	71 µg/l	-
	PNEC	Marine water	24 µg/l	-
	PNEC	Sewage Treatment Plant	10 g/l	-
	PNEC	Fresh water sediment	916.8 µg/kg	-

	PNEC	Marine water sediment	91.7 µg/kg	-
	PNEC	Soil	7.5 mg/kg	-
Laureth-7	PNEC	Fresh water	3.4 µg/l	-
	PNEC	Freshwater - intermittent	445 ng/l	-
	PNEC	Marine water	340 ng/l	-
	PNEC	Marine water - intermittent	44.5 ng/l	-
	PNEC	Sewage Treatment Plant	200 µg/l	-
	PNEC	Fresh water sediment	89.5 µg/kg dwt	-
	PNEC	Marine water sediment	8.95 µg/kg dwt	-
	PNEC	Soil	16 µg/kg dwt	-
Subtilisin	PNEC	Fresh water	1.7 µg/l	-
	PNEC	Freshwater - intermittent	900 ng/l	-
	PNEC	Marine water	170 ng/l	-
	PNEC	Sewage Treatment Plant	65 mg/l	-
	PNEC	Soil	568 µg/kg	-
Benzisothiazolinone	PNEC	Fresh water	4.03 µg/l	-
	PNEC	Freshwater - intermittent	1.1 µg/l	-
	PNEC	Marine water	403 ng/l	-
	PNEC	Marine water - intermittent	110 ng/l	-
	PNEC	Sewage Treatment Plant	1.03 mg/l	-
	PNEC	Fresh water sediment	49.9 µg/kg	-
	PNEC	Marine water sediment	4.99 µg/kg	-
	PNEC	Soil	3 mg/kg	-
Diphenyl ether	PNEC	Fresh water	455 ng/l	-
	PNEC	Freshwater - intermittent	4.55 µg/l	-
	PNEC	Marine	45.5 ng/l	-
	PNEC	Sewage Treatment Plant	10 mg/l	-
	PNEC	Sediment	92.6 µg/kg	-
	PNEC	Marine water sediment	9.26 µg/kg	-
Glutaral	PNEC	Fresh water	2.5 µg/l	-
	PNEC	Freshwater - intermittent	6 µg/l	-
	PNEC	Marine water	250 ng/l	-
	PNEC	Sewage Treatment Plant	800 µg/l	-
	PNEC	Fresh water sediment	91 µg/kg	-
	PNEC	Marine water sediment	9 µg/kg	-

	PNEC	Soil	210 µg/kg	-

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
1 - 4 hours (breakthrough time): 120 µm nitrile rubber

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	liquid [liquid]
Color	:	Light blue-green.
Odor	:	Characteristic.
Odor threshold	:	Not available.
Melting point/freezing point	:	Under normal conditions, melting point/freezing point will not be observed
Initial boiling point and boiling range	:	> 100 °C (> 212 °F)
Flammability	:	Non-flammable.
Lower and upper explosion limit	:	**Lower:** Based on available data, the classification criteria are not met. **Upper:** Based on available data, the classification criteria are not met.
Flash point	:	Non-flammable.
Auto-ignition temperature	:	Not flammable
Decomposition temperature	:	Not available.
pH	:	7.0 [Conc. (% w/w): 1,000 g/l]
Viscosity	:	**Dynamic :** 350 mPa.s **Kinematic :** Not relevant for these kind of mixtures
Solubility in water	:	Soluble
Partition coefficient: n-octanol/water	:	Not applicable for mixtures
Vapor pressure	:	Not relevant for these kind of mixtures
Relative density	:	1.062
Density	:	1.062 g/cm3
Bulk density	:	Not available.
Vapor density	:	Not relevant for these kind of mixtures

Particle characteristics

Median particle size	:	Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Heat of combustion	:	Not relevant for these kind of mixtures

Explosive properties : Mixture does not have explosive properties.
Oxidizing properties : Based on available data, the classification criteria are not met.

Aerosol product

Type of aerosol : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : None known.

10.5 Incompatible materials : None known.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
TEA-Dodecylbenzenesulfonate				
	LD50 Oral	Rat	1,080 mg/kg OECD 401 Acute Oral Toxicity	-
Laureth-7				
	LD50 Oral	Rat	1,700 mg/kg Value based on literature test data.	-
TEA-Etidronate				
	LD50 Oral	Rat	940 mg/kg OECD 401 Acute Oral Toxicity	-
Benzisothiazolinone				
	LD50 Oral	Rat	450 mg/kg OECD 401 Acute Oral Toxicity	-
	LC50 Inhalation Dusts and mists	Rat	0.21 mg/l Value based on supplier test data.	4 h

ISOEUGENOL				
	LD50 Oral	Rat	542 mg/kg OECD 401 Acute Oral Toxicity	-
	LC50 Inhalation Dusts and mists	Rat	1.5 mg/l Value based on supplier/literature test data.	4 h
	LD50 Dermal	Rabbit	1,912 mg/kg OECD 402 Acute Dermal Toxicity	-
Methyl Alcohol				
	LD50 Oral	Rat	100 mg/kg Value based on supplier/literature test data.	-
	LC50 Inhalation	Rat	3 mg/l Value based on supplier/literature test data.	6 h
	LD50 Dermal	Rabbit	300 mg/kg Value based on supplier/literature test data.	-
Glutaral				
	LD50 Oral	Rat	77 mg/kg Value based on supplier/literature test data.	-
	LC50 Inhalation Dusts and mists	Rat	0.28 mg/l OECD 403 Acute Inhalation Toxicity	4 h

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
Persil Bio Professional Concentrate	> 2000 mg/kg	> 2000 mg/kg	> 20000 ppm	> 20 mg/l	> 5 mg/l

Irritation/Corrosion

Conclusion/Summary

Skin : Causes skin irritation.

Eyes : Causes serious eye irritation. On basis of test data [OECD 438+160]

Respiratory : Non-irritating to the respiratory system.

Sensitization

Conclusion/Summary

Skin : May cause an allergic skin reaction.
Respiratory : Not sensitizing

Mutagenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ISOEUGENOL	Category 3	-	Respiratory tract irritation
Methyl Alcohol	Category 1	-	central nervous system (CNS), optic nerve

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: redness, irritation
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following: redness, irritation
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

Conclusion/Summary : Based on available data, the classification criteria are not met.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties : The substance/mixture does not contain components with known endocrine-disrupting properties according to REACH Article 57(f) or the Delegated Regulation of the Commission (EU) 2017/2100 or Commission regulation (EU) 2018/605 at a level 0.1% or higher.

11.2.2 Other information : None known

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary : The surfactants used in this mixture are readily biodegradable.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.

12.3 Bioaccumulative potential

The mixture is free from substances with potential for bioaccumulation

12.4 Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Mobility : Mixture is highly soluble

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties : The substance/mixture does not contain components with known endocrine-disrupting properties according to REACH Article 57(f) or the Delegated Regulation of the Commission (EU) 2017/2100 or Commission regulation (EU) 2018/605 at a level 0.1% or higher.

12.7 Other adverse effects : The substances used in this mixture are neither a PBT- or a vPvB substance

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

Waste code	Waste designation
20 01 29*	detergents containing hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)	
Bottle	15 01 02	plastic packaging

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	-	-	-	-

14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.4 Packing group	-	-	-	-
14.5. Environmental hazards	No.	No.	No.	No.

Additional information

ADN : Not regulated.

IMDG : Not regulated.

IATA : Not regulated.

14.6 Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)
None of the components are listed.

Persistent Organic Pollutants
None of the components are listed.

Seveso Directive
This product is not controlled under the Seveso Directive.

National regulations

Remark : No additional remark.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals
None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals
None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals
None of the components are listed.

Montreal Protocol
None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production
None of the components are listed.

Annex A - Elimination - Use
None of the components are listed.

Annex B - Restriction - Production
None of the components are listed.

Annex B - Restriction - Use
None of the components are listed.

Annex C - Unintentional - Production
None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial
None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide
None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide
None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1
None of the components are listed.

POPs - Annex 1 - Production
None of the components are listed.

POPs - Annex 1 - Use
None of the components are listed.

POPs - Annex 2
None of the components are listed.

POPs - Annex 3
None of the components are listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	**Russian Federation inventory:** Not determined.
Japan	:	**Japan inventory (CSCL)**: Not determined. **Japan inventory (ISHL)**: Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	Not determined.

15.2 Chemical Safety Assessment : Not applicable

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	On basis of test data [OECD 438+160]
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
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.

Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Met. Corr. 1	CORROSIVE TO METALS - Category 1
Resp. Sens. 1	RESPIRATORY SENSITIZATION - Category 1
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

Training advice	:	Workers who work with the product regularly and new employees must undergo regular training or introductory training on risks and prevention and how to behave so as not to endanger themselves and others. The scope of the training cycle is determined by the employer in accordance with local regulations.
Date of printing	:	17.04.2025
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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SUMI

Safe Use of Mixtures Information for end-users

SUMI_PW_8a_1_G

Version 1.0, May 2025

Transfer of product to a container (bottle/bucket/machine)

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered:

Process Category: PROC 8a

Environmental Release Category: ERC 8a

This SUMI applies to professional uses where the product is transferred to or diluted in a container, such as a dispenser, bottle, or bucket. This Safe Use Information is based on the AISE_SWED_PW_8a_1_L.

Operational Conditions

Maximum duration	60 minutes per day.
Range of application / Process conditions	Indoor Use. Process carried out at room temperature.

	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves and eye protection. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply; wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or on the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The classification of the product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.
Relevant limit value of the ingredients on which the exposure assessment is based are stated in Section 8 of the SDS.

Disclaimer

This is a generic document for communicating conditions of safe use of a product. This document relates only to conditions of safe use and is not specific to a product. It is the responsibility of the formulator to link this SUMI to a specific product that he is selling.

If a SUMI code is mentioned in Section 1 of the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

SUMI

Safe Use of Mixtures Information for end-users

Unilever

SUMI_PW_4_1

Version 1.0, May 2025

Professional uses; Semi-closed system

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered:

Process Category: PROC 4

Environmental Release Category: ERC 8a

The SUMI applies to professional uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the AISE_SWED_PW_4_1.

Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use. Process carried out at room temperature. In case of dilution, tap water at a maximum temperature of 45°C is used.

Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	See section 8 of the SDS of this product for specifications.
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply; wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The classification of the product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.
Relevant limit value of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.

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Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.