



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

# SAFETY DATA SHEET

## Persil Bio

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

#### 1.1 Product identifier

**Product name** : Persil Bio  
**Product code** : 67887066 , 200000217520  
**Product description** : Fabric washing Liquid  
**Product type** : liquid  
**Other means of identification** : Not available.

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

**Identified uses**  
 Consumer uses

#### 1.3 Details of the supplier of the safety data sheet

Unilever UK Limited  
 Springfield Drive  
 KT22 7GR  
 Surrey, Leatherhead  
 UNITED KINGDOM  
 0800 776646/Eire 1850 388 399

**e-mail address of person responsible for this SDS** : unileversds@unileverconsumerlink.co.uk

#### 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** : 0800 776646/Eire 1850 388 399

**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 Corr./Irrit. 2 H315  
Eye Dam./Irrit. 1 H318  
Skin Sens. 1 H317

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 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** : Danger

**Hazard statements** : Causes serious eye damage.  
Causes skin irritation.  
May cause an allergic skin reaction.

#### Precautionary statements

**General** : P102 Keep out of reach of children.

**Prevention** : P280 Wear protective gloves and eye/face protection.

**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.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P302 IF ON SKIN:  
P352 Wash with plenty of water.  
P333 + P313 If skin irritation or rash occurs, seek medical advice/attention.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazardous ingredients** : TEA-Dodecylbenzenesulfonate  
Laureth-7  
Methylisothiazolinone  
Octylisothiazolinone

ISOEUGENOL

**Supplemental label elements** : Not applicable.

**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**

**Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : Not applicable.

**Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : Not applicable.

**Other hazards which do not result in classification** : Not available.

**SECTION 3: Composition/information on ingredients**

**Substance/mixture** : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
				Regulation (EC) No. 1272/2008 [CLP]	
TEA-Dodecylbenzenesulfonate	EC : 270-116-6 CAS : 68411-31-4	>=10 - <=20		Eye Dam./Irrit. 1, H318 Skin Corr./Irrit. 2, H315 Acute Tox. 4, H302 Aquatic Chronic 3, H412	[1]
TEA-Etidronate	EC : 223-267-7 CAS : 3794-83-0	>=5 - <=10		Acute Tox. 4, H302 Eye Dam./Irrit. 2, H319 30 - 100 %	[1]
Laureth-7	EC : 221-283-9 CAS : 3055-97-8	>=3 - <=5		Acute Tox. 4, H302 Eye Dam./Irrit. 1, H318	[1]

				Aquatic Chronic 3, H412	
Sodium Laureth Sulfate	RRN : 01-2119488639-16 EC : 500-234-8 CAS : 68891-38-3	>=3 - <=4.6		Skin Corr./Irrit. 2, H315  Eye Dam./Irrit. 1, H318 10 - 100 % Eye Dam./Irrit. 2, H319 5 - 10 % Aquatic Chronic 3, H412	[1]
Glycerin	RRN : 01-2119471987-18 EC : 200-289-5 CAS : 56-81-5	>=1 - <=3			[2]
Octylisothiazolinone	EC: 247-761-7 CAS: 26530-20-1	>0 - <0.05		Acute Tox. 4, H302  Acute Tox. 3, H311  Skin Sens. 1, H317 0.05 - 100%  Acute Tox. 3, H331 Aquatic Acute 1, H400 M: 1  Aquatic Chronic 1, H410 M: 1	[1]
Methylisothiazolinone	EC : 220-239-6 CAS : 2682-20-4	>0 - <0.01		Skin Corr./Irrit. 1B, H314  Skin Sens. 1A, H317 0.0015 - 100 % Acute Tox. 2, H330  Acute Tox. 3, H311  Acute Tox. 3, H301  Aquatic Acute 1, H400 M: 10  Aquatic Chronic 1, H410 M: 1  Eye Dam./Irrit. 1, H318  EUH071 -, EUH071	[1]
Isoeugenol	EC : 202-590-7 CAS : 97-54-1	>0 - <0.01		Skin Sens. 1A, H317 0.01 - 100 %	[1]

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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 and hence require reporting in this section.

**Occupational exposure limits, if available, are listed in Section 8.** For confidentiality reasons, the levels of components listed in Section 3 are given in percentage bands. The bandings do not reflect potential variation in composition of this formulation, but are used simply to mask the exact component levels, which we consider to be proprietary information. The classification given in Section 2 and 15 reflects the exact composition of this mixture.

\* exempted according to REACH Art. 2(7) and Annex V; Each starting material of the ionic mixture is registered, if required

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- 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. Call a poison center or physician. Wash with plenty of soap and 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. 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. Chemical burns must be treated promptly by a physician. 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.
- 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**

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- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:
  - pain
  - watering
  - redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
  - pain or irritation
  - redness
  - blistering may occur
- Ingestion** : Adverse symptoms may include the following:
  - stomach pains

#### **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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide

### **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.
- Additional information** : Not available.

## **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).

### 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

### 7.3 Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Glycerin	<b>UK. Health and Safety Commission, EH 40, Workplace exposure limits(1997-01-01)</b> Notes: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used. For this substance the classification and labeling was introduced in the 29th Adaptation to Technical Progress of the European Community's Dangerous Substances Directive Time Weighted Average (TWA) 10 mg/m <sup>3</sup> Form: Mist

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

#### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
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Sodium Laureth Sulfate	DNEL	Long term Inhalation	175 mg/m <sup>3</sup>	Workers	Systemic
Sodium Laureth Sulfate	DNEL	Long term Dermal	2750 mg/kg bw/day	Workers	Systemic

**DNEL/DMEL Summary** : Not available.

### PNECs

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
Sodium Laureth Sulfate	PNEC	Fresh water	240 µg/l	
Sodium Laureth Sulfate	PNEC	Sewage Treatment Plant	10 µg/m <sup>3</sup>	
Sodium Laureth Sulfate	PNEC	Marine water	24 µg/l	
Sodium Laureth Sulfate	PNEC	Freshwater - intermittent	71 µg/l	
Sodium Laureth Sulfate	PNEC	Marine water sediment	0.545 mg/kg dwt	
Sodium Laureth Sulfate	PNEC	Fresh water sediment	5.45 mg/kg dwt	
Sodium Laureth Sulfate	PNEC	Soil	0.946 mg/kg dwt	

**PNEC Summary** : Not available.

## 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. Contaminated work clothing should not be allowed out of the workplace. 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. For prolonged or repeated handling, use Latex gloves.

<b>Body protection</b>	:	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.
<b>Other skin protection</b>	:	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.
<b>Respiratory protection</b>	:	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.
<b>Environmental exposure controls</b>	:	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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Form</b>	:	liquid
<b>Color</b>	:	turquoise
<b>Odor</b>	:	perfumed
<b>Odor threshold</b>	:	Not available.
<b>pH</b>	:	7.0 [Conc. (% w/w): 1,000 g/l ]
<b>Melting point/freezing point</b>	:	Not available.
<b>Initial boiling point and boiling range</b>	:	Not available.
<b>Flash point</b>	:	Non-flammable.
<b>Evaporation rate</b>	:	Not available.
<b>Flammability (solid, gas)</b>	:	Not available.
<b>Density</b>	:	Not available
<b>Bulk density</b>	:	Not available
<b>Burning time</b>	:	Not available.
<b>Burning rate</b>	:	Not available.
<b>Upper/lower flammability or explosive limits</b>	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
<b>Vapor pressure</b>	:	Not available.
<b>Vapor density</b>	:	Not available.
<b>Relative density</b>	:	Not available.
<b>Solubility(ies)</b>	:	Not available.
<b>Solubility in water</b>	:	Not available.
<b>Partition coefficient: n-octanol/water</b>	:	Not available.
<b>Auto-ignition temperature</b>	:	Not available.
<b>Decomposition temperature</b>	:	Not available.
<b>Viscosity</b>	:	<b>Dynamic:</b> 350 mPa.s <b>Kinematic:</b> Not available.
<b>Explosive properties</b>	:	Not available.
<b>Oxidizing properties</b>	:	Not available.

### 9.2 Other information

<b>SADT</b>	:	Not available
<b><u>Aerosol product</u></b>	:	

Type of aerosol : Not available  
Heat of combustion : Not available.

## 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** : No specific data.
- 10.5 Incompatible materials** : No specific data.
- 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 toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
TEA-Dodecylbenzenesulfonate				
	LD50 Oral	Rat	1,080 mg/kg	-
TEA-Etidronate				
Sodium Laureth Sulfate				
	LD50 Oral	Rat	1,800 mg/kg	-
Laureth-7				
Glycerin				
	LD50 Oral	Rat	23,000 mg/kg	-
Methylisothiazolinone				
	LD50 Oral	Rat	105 mg/kg	-

**Conclusion/Summary** : Very low toxicity to humans or animals.

#### Acute toxicity estimates

Route	ATE value
Oral	5057.4 milligram per kilogram

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Glycerin	Not relevant	Not relevant	0		-

#### **Conclusion/Summary**

**Skin** : Causes skin irritation.  
**Eyes** : Causes serious eye damage.  
**Respiratory** : Non-irritating to the respiratory system.

#### Sensitization

#### **Conclusion/Summary**

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

#### **Mutagenicity**

**Conclusion/Summary** : Not applicable.

#### **Carcinogenicity**

**Conclusion/Summary** : No additional remark.

#### **Reproductive toxicity**

**Conclusion/Summary** : Not applicable.

#### **Teratogenicity**

**Conclusion/Summary** : Not applicable.

#### **Specific target organ toxicity (single exposure)**

Not available.

#### **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 damage.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**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:  
pain  
watering  
redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
**Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

##### **Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary** : Very low toxicity to humans or animals.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Glycerin			
	Acute LC50 > 205 mg/l	Fish - Fish	96 h
Methylisothiazolinone			
	Acute EC50 0.18 mg/l Fresh water	Aquatic invertebrates. Water flea	2 d

**Conclusion/Summary** : No known significant effects or critical hazards.

### 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

Product/ingredient name	LogPow	BCF	Potential
TEA-Etidronate	-3	71.00	low
Sodium Laureth Sulfate	0.3	-	low
Glycerin	-1.76	-	low

### 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

**PBT** : P: Not available.  
 B: Not available.  
 T: Not available.

**vPvB** : vP: Not available.  
 vB: Not available.

**12.6 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.

#### 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.
- 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
<b>14.1 UN number</b>	-	-	-	-
<b>14.2 UN proper shipping name</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.3 Transport hazard class(es)</b>	Not regulated. (-)	Not regulated. (-)	Not regulated. (-)	Not regulated. (-)
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5. Environmental hazards</b>	No.		No.	
<b>Additional information</b>				

**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 Transport in bulk according to Annex II of MARPOL and the IBC Code**

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.

**Other EU regulations**

**Europe inventory** : Not determined.

**Industrial emissions (integrated** : Not listed

**pollution prevention**

**and control) - Air**

**Industrial emissions (integrated** : Not listed

**pollution prevention**

**and control) - Water**

**Aerosol dispensers** : Not applicable.

**Seveso III Directive**

**National regulations**

**Remark** : No additional remark.

**International regulations**

**Chemical Weapons Convention** : Not listed

**List Schedule I Chemicals**

**Chemical Weapons Convention** : Not listed

**List Schedule II Chemicals**

**Chemical Weapons Convention** : Not listed

**List Schedule III Chemicals**

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 AISE = Association Internationale de la Savonnerie, de la Détergence et des Produits d'Entretien, International Association for Soaps, Detergents and Maintenance Products'  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Skin Corr./Irrit. 2, H315	Calculation method
Eye Dam./Irrit. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method

<b>Full text of abbreviated H statements</b>	: 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. H319 Causes serious eye irritation. 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.
<b>Full text of classifications [CLP/GHS]</b>	: <b>Acute Tox. 3, H301:</b> ACUTE TOXICITY: oral - Category 3 <b>Acute Tox. 4, H302:</b> ACUTE TOXICITY: oral - Category 4 <b>Acute Tox. 3, H311:</b> ACUTE TOXICITY: dermal - Category 3 <b>Skin Corr./Irrit. 1B, H314:</b> SKIN CORROSION/IRRITATION - Category 1B <b>Skin Corr./Irrit. 2, H315:</b> SKIN CORROSION/IRRITATION - Category 2 <b>Skin Sens. 1, H317:</b> SKIN SENSITIZATION - Category 1 <b>Skin Sens. 1A, H317:</b> SKIN SENSITIZATION - Category 1A <b>Eye Dam./Irrit. 1, H318:</b> SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 <b>Eye Dam./Irrit. 2, H319:</b> SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 <b>Acute Tox. 2, H330:</b> ACUTE TOXICITY: inhalation - Category 2 <b>Aquatic Acute 1, H400:</b> AQUATIC HAZARD (ACUTE) - Category 1 <b>Aquatic Chronic 1, H410:</b> AQUATIC HAZARD (LONG-TERM) - Category 1 <b>Aquatic Chronic 3, H412:</b> AQUATIC HAZARD (LONG-TERM) - Category 3
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