



## SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Persil Bio Powder

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** PersilBio Powder  
**Product code** 8836872  
**Product description** Fabric washing powder

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

Industrial uses: Uses of substances as such or in preparations at industrial sites

Consumer uses: Private households (= general public = consumers)

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

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

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Unilever UK Limited  
Springfield Drive Surrey, Leatherhead  
UNITED KINGDOM  
KT22 7GR

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

#### 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** -

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** Mixture

#### Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** Not classified.

**Physical/chemical hazards** Not applicable.

#### **Physical/chemical hazards**

**Human health hazards** Not applicable.

**Environmental hazards** Not applicable.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Safety phrases**

- AISE 1: Keep away from children
- AISE 2 :Keep away from eyes. If product gets into eyes rinse thoroughly with water
- AISE 3 :Rinse and dry hands after use.
- AISE 4:People with sensitive or damaged skin should avoid prolonged contact with the product.

Supplemental label elements 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.

## 3. Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Sodium carbonate	RRN : 01-2119485498-19	10 - 25	Xi; R36	Eye Dam./Irrit., 2, H319	[1]

	EC:207-838-8 CAS : 497-19-8 Index:				
*) sodium benzenesulfonate C10-13 alkyl derivs.	RRN : 01-2119489428-22 EC:246-680-4 CAS : 25155-30-0 Index:	10 - 25	Xn; R22 Xi; R41 R38	Acute Tox., 4, H302 Eye Dam./Irrit., 1, H318 Skin Corr./Irrit., 2, H315	[1]
Sodium Carbonate Peroxide	RRN : 01-2119457268-30 EC:239-707-6 CAS : 15630-89-4 Index:	5 - 10	Xn; R22 R41 O; R8	Ox. Liq., 1, H271 Eye Dam./Irrit., 1, H318 Acute Tox., 4, H302	[1]
Sodium Silicate	RRN : 01-2119448725-31 EC:215-687-4 CAS : 1344-09-8 Index:	5 - 10	Xi; R41R38	Eye Dam./Irrit., 1, H318 Skin Corr./Irrit., 2, H315	[1]
Citric acid	RRN : 01 – 2119457026-42 EC:201-069-1 CAS : 5949-29-1 Index:	1 - 5	Xi; R36	Eye Dam./Irrit., 2, H319	[1]
C12-15 Pareth-7	RRN : EC:500-195-7 CAS : 68131-39-5 Index:	1 - 5	Xn; R22 R41 N; R50	Acute Tox., 4, H302 Aquatic Acute, 1, H400 Eye Dam./Irrit., 1, H318	[1]

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

See Section 16 for the full text of the R phrases or H statements declared above.

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

## **4. First aid measures**

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

#### **Eye contact**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

#### **Inhalation**

Keep person warm and at rest.

#### **Skin contact**

Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

#### **Ingestion**

Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water.

#### **Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training.

### **4.2 Most important symptoms and effects, both acute and delayed**

#### **Potential acute health effects**

#### **Eye contact**

May cause eye irritation.

#### **Inhalation**

No known significant effects or critical hazards.

**Skin contact**

May cause skin irritation.

**Ingestion**

May be irritating to mouth, throat and stomach.

**Over-exposure signs/symptoms**

**Eye contact**

Adverse symptoms may include the following:

redness

**Inhalation**

No specific data.

**Skin contact**

No specific data.

**Ingestion**

No specific data.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician**

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**

No specific treatment.

**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**

Fine dust clouds may form explosive mixtures with air.

### **Hazardous combustion products**

No specific data.

## **5.3 Advice for firefighters**

### **Special precautions 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.

## **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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders**

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

**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**

Move containers from spill area. Dispose of via a licensed waste disposal contractor. Vacuum or sweep up material and place in a designated, labeled waste container.

**Large spill**

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**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.

**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 ingest. 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. Separate from oxidizing materials. Eliminate all ignition sources. 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

## **8. Exposure controls/personal protection**

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).

## **8.1 Control parameters**

### **Occupational exposure limits**

<b><u>Product/ingredient name</u></b>	<b><u>Occupational exposure limits</u></b>
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No exposure limit value known.

### **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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

## **8.2 Exposure controls**

### **Appropriate engineering controls**

If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### **Individual protection measures**

#### **Hygiene measures**

Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eyeface 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. Industrial use  
Wear eye protection. Eye/Face Protection: Chemical splash goggles or face shield.

#### **Skin protection**

#### **Hand protection**

For industrial use

#### **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., For industrial use, Wear suitable protective clothing., Avoid prolonged or repeated contact with skin.

#### **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**

A respirator is not needed under normal and intended conditions of product use. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### **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.

## **9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

#### **Appearance**

<b>Form</b>	solid
<b>Color</b>	white
<b>Odor</b>	perfumed
<b>Odor threshold</b>	Not available

<b>pH</b>	10.5 [Conc. (% w/w) 10 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>	650.0000 kg/m <sup>3</sup>
<b>Solubility in water at room temperature (g/l):</b>	Not available
<b>Upper/lower flammability or explosive limits</b>	Lower: Not available. Upper: 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>Partition coefficient: n-octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Viscosity</b>	Dynamic: Not available Kinematic: Not available.
<b>Explosive properties</b>	Not available

**Oxidizing properties** Not available

## **9.2 Other information**

**SADT** Not available

**Type of aerosol** Not available

**Heat of combustion** Not available.

## **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** Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

**10.5 Incompatible materials** Reactive or incompatible with the following materials:  
oxidizing materials

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

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 (ingestion) > 2,000 mg/kg

#### **Irritation/Corrosion**

##### **Eyes**

The irritancy potential of this mixture has been assessed by reference to test data on similar mixtures.

The mixture is not irritant for eyes.

##### **Skin**

Contains a substance considered irritating to skin, but below threshold for classification.

##### **Sensitization**

No sensitization studies have been performed on the mixture. Based on the composition as indicated in section 3, it's not likely that the mixture will cause sensitisation by skin contact

##### **Respiratory**

No inhalation irritancy studies have been performed on the mixture. Based on the composition as indicated in section 3, it is not likely that this mixture will cause irritation of the respiratory tract.

##### **Repeated dose toxicity**

not available

##### **Carcinogenicity**

No known significant effects or critical hazards.

##### **Mutagenicity**

No known significant effects or critical hazards.

##### **Toxicity for reproduction**

No known significant effects or critical hazards.

## 12: Ecological information

### 12.1 Toxicity

No ecological testing on the mixture has been performed. Contains a substance considered very toxic to aquatic organisms, but below threshold for classification.

### 12.2 Persistence and degradability

The surfactants used in this mixture are readily biodegradable.

The surfactant(s) contained in this mixture 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

Not considered to be bioaccumulating in the environment  
BCF

### 12.4 Mobility in soil

Mixture is highly soluble

### 12.5 Results of PBT and vPvB assessment

The substances used in this mixture are neither a PBT- or a vPvB substance

## 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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

##### **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.

#### 14. Transport information

	ADR/RID	ADN/ADNR	IMDG
<b>14.1 UN number</b>			
<b>14.2 UN proper shipping name</b>			
<b>14.3 Transport hazard class(es)</b>	Not regulated.	Not regulated.	Not regulated.
<b>14.4 Packing group</b>			
<b>14.5. Environmental hazards</b>			
<b>14.6 Special precautions for user</b>	Not available	Not available	Not available
<b>Additional information</b>			

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

## 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

##### Substances of very high concern

**Carcinogen:** None of the components are listed.

**Mutagen:** None of the components are listed.

**Toxic to reproduction:** None of the components are listed.

**PBT:** None of the components are listed.

**vPvB:** 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**

Not applicable.

#### **Other EU regulations**

##### **Europe inventory**

Not determined.

##### **Integrated pollution prevention and control list (IPPC) - Air-**

Not listed

##### **Integrated pollution prevention and control list (IPPC) - Water-**

Not listed

**Aerosol dispensers****National regulations**

**Remark** This product has been classified in accordance with Dangerous Preparations Directive (1999/45/EC as amended).

**International regulations**

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

**16. Other information****Abbreviations and acronyms**

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

**Key literature references and**

The acute toxicity (LD50) of this mixture, as given in section 11, has been calculated using the Proportionality Method (Holland, G.H. (1994). Verification of a Mathematical Method for the Estimation of the Acute

**sources for data** Ingestion Hazard of Detergent Preparations. Toxic in Vitro, Vol. 8 No. 6 pp1177 – 1183, Elsevier Science Limited, Wielka Brytania.)

**Full text of abbreviated** H302 Harmful if swallowed.

**H statements** H400 Very toxic to aquatic life.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H271 May cause fire or explosion; strong oxidizer.

H315 Causes skin irritation.

**Full text of classifications [CLP/GHS]**

**Acute Tox. 4, H302:** ACUTE TOXICITY: ORAL - Category 4

**Aquatic Acute 1, H400:** AQUATIC TOXICITY (ACUTE) - Category 1

**Eye Dam./Irrit. 1, H318:** SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

**Eye Dam./Irrit. 2, H319:** SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

**Ox. Liq. 1, H271:** OXIDIZING LIQUIDS - Category 1

**Skin Corr./Irrit. 2, H315:** SKIN CORROSION/IRRITATION - Category 2

**Full text of abbreviated** R8- Contact with combustible material may cause fire.

**R phrases** R22- Harmful if swallowed.

R41- Risk of serious damage to eyes.

R36- Irritating to eyes.

R38- Irritating to skin.

R50- Very toxic to aquatic organisms.

**Full text of classifications** O - Oxidizing

**[DSD/DPD]** Xn - Harmful

Xi - Irritant

N - Dangerous for the environment.

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