

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

1.1. Product identifier

Chemical type : Mixture
 Trade name : Deepio Original Powder
 Product code : PA00180937

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

1.2.1. Relevant identified uses

Function or use category : Cleaning/washing agents and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK

Tel: 01932 896000 Fax: 01932 896200

Retail : sds.im@pg.com

Professional : info.uk@pg.com

1.4. Emergency telephone number

Emergency number (UK) Emergency Tel: 0800 328 8304
 (IRL) Emergency Tel: 1800 509 497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols : -
 R-phrases : Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC
 S-phrases : S2 - Keep out of the reach of children

2.3. Other hazards

Other hazards not contributing to the classification : No presence of PBT and vPvB ingredients.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Sodium Carbonate	(CAS No) 497-19-8 (EC no) 207-838-8 (EC index no) 011-005-00-2 (REACH-no) 01-2119485498-19	10 - 20	Xi; R36
Sodium Dodecylbenzenesulfonate	(CAS No) 68411-30-3 (EC no) 270-115-0 (REACH-no) 01-2119489428-22	10 - 20	Xn; R22 Xi; R41 Xi; R38
Sodium Silicate	(CAS No) 1344-09-8 (EC no) 215-687-4 (REACH-no) 01-2119448725-31	5 - 10	Xi; R41 Xi; R37/38
Sodium C12-15 Pareth Sulfate	(CAS No) 91648-56-5 (EC no) 293-918-8	1 - 5	Xi; R41 Xi; R38
C12-14 Pareth-7	(CAS No) 68439-50-9 (EC no) polymer	< 1	Xn; R22 Xi; R41 N; R50

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according to Regulation (EC) No. 453/2010

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Carbonate	(CAS No) 497-19-8 (EC no) 207-838-8 (EC index no) 011-005-00-2 (REACH-no) 01-2119485498-19	10 - 20	Eye Irrit. 2, H319
Sodium Dodecylbenzenesulfonate	(CAS No) 68411-30-3 (EC no) 270-115-0 (REACH-no) 01-2119489428-22	10 - 20	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sodium Silicate	(CAS No) 1344-09-8 (EC no) 215-687-4 (REACH-no) 01-2119448725-31	5 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Sodium C12-15 Pareth Sulfate	(CAS No) 91648-56-5 (EC no) 293-918-8	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
C12-14 Pareth-7	(CAS No) 68439-50-9 (EC no) polymer	< 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Respiratory problems: consult a doctor/medical service.
- First-aid measures after skin contact : When symptoms occur: rinse immediately with plenty of water. Take victim to a doctor if irritation persists.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Take victim to a doctor if irritation persists.
- First-aid measures after ingestion : Give nothing or a little water to drink. Do not induce vomiting. Consult a doctor/medical service.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause irritation or asthma-like symptoms.
- Symptoms/injuries after skin contact : Contact during a long period may cause light irritation.
- Symptoms/injuries after eye contact : May cause slight irritation.
- Symptoms/injuries after ingestion : Gastrointestinal complaints.

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

Refer to section 4.1.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

5.2. Special hazards arising from the substance or mixture

- Fire hazard : No fire hazard. Non combustible.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

- Firefighting instructions : No specific firefighting instructions required.
- Protection during firefighting : In case of inadequate ventilation wear respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves and eye/face protection.

6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves and eye/face protection.

6.2. Environmental precautions

Consumer products ending up down the drain after use. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

- For containment : Scoop solid spill into closing containers.
- Methods for cleaning up : Small quantities of solid spill: wash down with water. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.

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6.4. Reference to other sections

Refer to Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Refer to section 10.
Incompatible products : Refer to section 10.
Incompatible materials : Not applicable.
Prohibitions on mixed storage : Not applicable.
Storage area : Store in a cool area. Store in a dry area. Store away from heat.

7.3. Specific end use(s)

Cleaning/washing agents and additives.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium Silicate (1344-09-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1.59 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5.61 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.38 mg/m ³
Long-term - systemic effects, dermal	0.8 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	7.5 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	7.5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	348 mg/l

Sodium Carbonate (497-19-8)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	10 mg/m ³

Sodium Dodecylbenzenesulfonate (68411-30-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	170 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	12 mg/m ³
Long-term - local effects, inhalation	12 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.85 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3 mg/m ³
Long-term - systemic effects, dermal	85 mg/kg bodyweight/day
Long-term - local effects, inhalation	3 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.268 mg/l
PNEC aqua (marine water)	0.0268 mg/l
PNEC aqua (intermittent, freshwater)	0.0167 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	8.1 mg/kg dwt
PNEC sediment (marine water)	8.1 mg/kg dwt
PNEC (Soil)	
PNEC soil	35 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	3.4 mg/l

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8.2. Exposure controls

Personal protective equipment	: Not required for normal conditions of use.
Hand protection	: Not applicable.
Eye protection	: Not applicable.
Skin and body protection	: Not applicable.
Respiratory protection	: Not applicable.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
Colour	: White.
Odour	: odourless.
Odour threshold	: No data available
pH	: 10.6 - 11
pH solution	: 1 %
Melting point	: Not measured.
Freezing point	: No data available
Boiling point	: Not measured.
Flash point	: new version due to change in formulation with a change in section 3, and potential other changes in Sections 8, 11 and 12
Relative evaporation rate (butylacetate=1)	: Not measured.
Flammability (solid, gas)	: Not flammable
Explosive limits	: Product is not explosive
Vapour pressure	: Not measured.
Relative vapour density at 20 °C	: Not measured.
Relative density	: No data available
Density	: 440 g/l
Solubility	: Soluble in water.
Log Pow	: No data available
Self ignition temperature	: Not measured.
Decomposition temperature	: Not measured.
Viscosity	: new version due to change in formulation with a change in section 3, and potential other changes in Sections 8, 11 and 12

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Not required for normal conditions of use.

10.5. Incompatible materials

Not applicable.

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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LD50 oral rat	> mg/kg
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Sodium Silicate (1344-09-8)	
LD50 oral rat	3400 mg/kg
LD50 dermal rat	> 5000 mg/kg Read across data: Potassium silicate solution (MR: 2.47), EPA OPPTS 870.1200, rat
LC50 inhalation rat (mg/l)	> 2.06 mg/l Read across data: Potassium silicate solution (MR: 2.47), rat

Sodium Carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg
LD50 dermal rabbit	2001 mg/kg

Sodium Dodecylbenzenesulfonate (68411-30-3)	
LD50 oral rat	1080 mg/kg
LD50 dermal rat	> 2000 mg/kg

C12-14 Pareth-7 (68439-50-9)	
LD50 oral rat	1600 mg/kg
LD50 dermal rat	2001 mg/kg

Irritation	: Not classified pH: 10.6 - 11
Corrosivity	: Not classified pH: 10.6 - 11
Sensitisation	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified
Potential Adverse human health effects and symptoms	: Acute Toxicity: based upon available data of the substances, classification criteria are not met. Carcinogenicity: based upon available data of the substances, classification criteria are not met. Corrosivity: based upon available data of the substances, classification criteria are not met. Irritation: based upon available preparation data and bridging principles, classification criteria are not met. Mutagenicity: based upon available data of the substances, classification criteria are not met. Repeated Dose Toxicity: based upon available data of the substances, classification criteria are not met. Sensitization: based upon available data of the substances, classification criteria are not met. Toxicity for Reproduction: based upon available data of the substances, classification criteria are not met.
Other information	: Likely routes of exposure: skin and eye. Information on Effects: refer to section 4.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended. The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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Sodium Silicate (1344-09-8)	
LC50 fishes 1	1108 mg/l OECD 203, Brachydanio rerio, MR: 3.46, 34.8%
EC50 Daphnia 1	1700 mg/l EU Method C.2, Daphnia magna, static, MR: 3.2 and 35% active
EC50 other aquatic organisms 1	> 348 mg/l Pseudomonas putida, growth inhibition, pH>9
ErC50 (algae)	207 mg/l DIN 38412, Teil 9, Scenedesmus subspicatus, biomass, MR: 3, 34.54% active

Sodium Carbonate (497-19-8)	
LC50 fishes 1	300 mg/l
EC50 Daphnia 1	200 mg/l

Sodium Dodecylbenzenesulfonate (68411-30-3)	
LC50 fishes 1	1.67 mg/l
EC50 Daphnia 1	2.9 mg/l
ErC50 (algae)	127.9 mg/l
NOEC chronic fish	0.23 mg/l

C12-14 Pareth-7 (68439-50-9)	
LC50 fishes 1	10 mg/l
EC50 Daphnia 1	10 mg/l
ErC50 (algae)	10 mg/l

12.2. Persistence and degradability

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C12-14 Pareth-7 (68439-50-9)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Biodegradation	> 70 %

12.3. Bioaccumulative potential

Sodium Silicate (1344-09-8)	
Bioaccumulative potential	Not measured.

Sodium Dodecylbenzenesulfonate (68411-30-3)	
BCF fish 1	2 - 1000 l/kg
Log Pow	3.32
Log Kow	5

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Deepio Original Powder	
Results of PBT assessment	No presence of PBT and vPvB ingredients

Sodium Silicate (1344-09-8)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

Sodium Dodecylbenzenesulfonate (68411-30-3)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Not applicable

SECTION 15: Regulatory information

Ingredient label : 15-30% Anionic surfactants; <5% Non-ionic surfactants, Phosphonates, Polycarboxylates, Zeolites; Optical brighteners.

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

15.1.1. EU-Regulations

No additional information available

15.1.2. National regulations

EURAL code : 20 01 29*

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CESIO recommendations : 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.

15.2. Chemical safety assessment

new version due to change in formulation with a change in section 3, and potential other changes in Sections 8, 11 and 12

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Salts listed in Section 3 without a REACH Registration number are exempt, based on Annex V

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects
R22	Harmful if swallowed
R36	Irritating to eyes
R37/38	Irritating to respiratory system and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product