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Revision Number 1

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

### 1.1. Product identifier

Product Identifier	C-20140796-004_PGP_CLPR7_EUR_SAW
Product Name	PROD PGP BOLD PURPLE EVIAN II 60g LONDON
Product Form	Mixture
Pure substance/mixture	Mixture

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

Recommended use	Restricted to professional users
Uses advised against	No information available
Main user category	SU 22 - Professional uses
Product category	Laundry Powder
Use category	PC35 - Washing and cleaning products (including solvent based products)

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

Supplier	Manufacturer
Procter & Gamble UK Brooklands PGP, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200	Procter & Gamble London Plant Hedley Avenue, West Thurrock, Grays, Essex RM20 4AL Tel: +44 (0)1375 395000
P&G DCE bvba/sprl-Belgium Dist. Div., Temselaan 100, B-1853 Strombeek-Bever, Belgium (IE) 1800 535 119	

For further information, please contact

E-mail address customerservice@pgprof.com

### 1.4. Emergency telephone number

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

(IRL) Poisons information: for information or to report a poisoning incident contact The National Poisons Information Centre 01 8092166 (8.00 a.m. to 10.00 p.m. 7 days a week)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
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### 2.2. Label elements



Signal word  
Warning

### Hazard statements

H319 - Causes serious eye irritation

**Precautionary Statements - EU (§28, 1272/2008)**

P102 - Keep out of reach of children  
 P312 - Call a POISON CENTER or doctor if you feel unwell  
 P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes

EUH208 - Contains Linalool, Delta-Damascone May produce an allergic reaction.

**2.3. Other hazards**

No information available.

**Endocrine Disruptor Information** There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

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

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	CAS No	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Sodium Carbonate	497-19-8	10 - 20	01-21194854 98-19	207-838-8	Eye Irrit. 2(H319)	-	-	-
Sodium C10-13 Alkyl Benzenesulfonate	68411-30-3	5 - 10	01-21194894 28-22	270-115-0	Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Eye Dam. 1(H318) Aquatic Chronic 3(H412)	Acute Tox. 4 :: 65%<=C<10 0%	-	-
Sodium Silicate	1344-09-8	5 - 10	01-21194487 25-31	215-687-4	Skin Irrit. 2(H315) Eye Dam. 1(H318) STOT SE 3(H335)	-	-	-
Sodium Carbonate Peroxide	15630-89-4	5 - 10	01-21194572 68-30	239-707-6	Ox. Sol. 3(H272) Acute Tox. 4 (Oral)(H302) Eye Dam. 1(H318)	Eye Dam. 1 :: 25%<=C<10 0% Eye Irrit. 2 :: 7.5%<=C<25 %	-	-
Linalool	78-70-6	<1	01-21194740 16-42	201-134-4	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Irrit. 2(H319)	-	-	-
Delta-Damascone	57378-68-4	<1	01-21195351 22-53	260-709-8	Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Skin Sens.	-	-	-

					1A(H317) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)			
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**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

No information available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59).

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.  
**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (Call a physician if symptoms occur).  
**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.  
**Skin contact** IF ON SKIN: Wash with plenty of soap and water. Remove and isolate contaminated clothing and shoes. Get medical attention if symptoms occur. Discontinue use of product.  
**Ingestion** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.  
**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Coughing and/ or wheezing. Redness. Swelling of tissue. Itching. Sneezing. Dryness. Pain. Blurred vision. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive secretion.

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

**Note to physicians** Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).  
**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** None in particular.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.  
**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

<b>Methods for containment</b>	Scoop absorbed substance into closing containers.
<b>Methods for cleaning up</b>	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.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	Avoid contact with eyes. Use personal protection equipment. Do not eat, drink or smoke when using this product.
<b>General hygiene considerations</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep/store only in original container. Keep tightly closed in a dry and cool place. Keep away from heat.

### 7.3. Specific end use(s)

#### Specific use(s)

Cleaning/washing agents and additives.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Sodium Carbonate	-	TWA: 5 mg/m <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup>	-	-	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Sodium Carbonate	-	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	-	-	-

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) Long term.

Chemical name	Worker - dermal, long-term - systemic	Worker - inhalative, long-term - systemic	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
Sodium Chloride	295.52 mg/kg bw/day	2068.62 mg/m <sup>3</sup>	-	-
Sodium Carbonate	-	-	-	10 mg/m <sup>3</sup>
Sodium C10-13 Alkyl Benzenesulfonate	119 mg/kg bw/day	7.6 mg/m <sup>3</sup>	-	6 mg/m <sup>3</sup>
Sodium Silicate	1.59 mg/kg bw/d	5.61 mg/m <sup>3</sup>	-	-
Sodium Carbonate Peroxide	-	-	12.8 mg/cm <sup>2</sup>	5 mg/m <sup>3</sup>
TAED	20 mg/kg bw/day	0.0064 mg/L	-	-
Linalool	3.5 mg/kg bw/day	24.58 mg/m <sup>3</sup>	3 mg/cm <sup>2</sup>	-
Delta-Damascone	0.4 mg/kg bw/d	1.5 mg/m <sup>3</sup>	-	-

Chemical name	Consumer - oral, long-term -	Consumer - inhalative,	Consumer - dermal, long-term
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	local	long-term - local	- local
Sodium C10-13 Alkyl Benzenesulfonate	-	1.5 mg/m <sup>3</sup>	-
Sodium Carbonate Peroxide	-	-	6.4 mg/cm <sup>2</sup>
Linalool	-	-	1.5 mg/cm <sup>2</sup>

Chemical name	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic
Sodium Chloride	126.65 mg/kg bw/day	443.28 mg/m <sup>3</sup>	126.65 mg/kg bw/day
Sodium C10-13 Alkyl Benzenesulfonate	0.425 mg/kg bw/day	1.3 mg/m <sup>3</sup>	42.5 mg/kg bw/day
Sodium Silicate	0.8 mg/kg bw/d	1.38 mg/m <sup>3</sup>	0.8 mg/kg bw/d
TAED	0.45 mg/kg bw/day	0.075 mg/L	10 mg/kg bw/day
Linalool	2.49 mg/kg bw/day	4.33 mg/m <sup>3</sup>	1.25 mg/kg bw/day
Delta-Damascone	0.25 mg/kg bw/d	1.5 mg/m <sup>3</sup>	0.4 mg/kg bw.d

**Derived No Effect Level (DNEL)** Short term.

Chemical name	Worker - dermal, short-term - systemic	Worker - inhalative, short-term - systemic	Worker - dermal, short-term - local	Worker - inhalative, short-term - local
Sodium Chloride	295.52 mg/kg bw/day	2068.62 mg/m <sup>3</sup>	295.52 mg/kg bw/day	-
Sodium Carbonate Peroxide	-	-	12.8 mg/kg bodyweight/day	12.8 mg/cm <sup>2</sup>
Linalool	-	16.5 mg/m <sup>3</sup>	15 mg/cm <sup>2</sup>	3 mg/cm <sup>2</sup>
Delta-Damascone	-	-	0.014 mg/cm <sup>2</sup>	-

Chemical name	Consumer - inhalative, short-term - local	Consumer - dermal, short-term - local
Sodium Carbonate	10 mg/m <sup>3</sup>	-
Sodium Carbonate Peroxide	-	6.4 mg/cm <sup>2</sup>
Linalool	-	1.5 mg/cm <sup>2</sup>
Delta-Damascone	-	0.0086 mg/cm <sup>2</sup>

Chemical name	Consumer - oral, short-term - systemic	Consumer - inhalative, short-term - systemic	Consumer - dermal, short-term - systemic
Sodium Chloride	126.65 mg/kg bw/day	443.28 mg/m <sup>3</sup>	126.65 mg/kg bw/day
Linalool	1.2 mg/kg bw/d	4.1 mg/m <sup>3</sup>	2.5 mg/kg bw/d

**Predicted No Effect Concentration (PNEC)**

Chemical name	Fresh Water	Marine water	Intermittent release
Sodium Chloride	5 mg/L	-	19 mg/L
Sodium Carbonate	no data; no toxicity expected	no data; no toxicity expected	no data; no toxicity expected
Sodium C10-13 Alkyl Benzenesulfonate	0.268 mg/L	0.027 mg/L	0.017 mg/L
Sodium Silicate	7.5 mg/L	1 mg/L	7.5 mg/L
Sodium Carbonate Peroxide	0.035 mg/L	0.035 mg/L	0.035 mg/L
TAED	10 mg/L	0.5 mg/L	10 mg/L
Citric Acid	0.44 mg/L	0.044 mg/L	-
Linalool	0.2 mg/L	0.02 mg/L	2 mg/L
Delta-Damascone	0.007 mg/L	0.0007 mg/L	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment plant	Soil	Air	Oral
Sodium Chloride	-	-	500 mg/L	4.86 mg/kg soil dw	-	-
Sodium Carbonate	no data; no toxicity expected	-	-			
Sodium C10-13 Alkyl Benzenesulfonate	8.1 mg/kg sediment dw	6.8 mg/kg sediment dw	3.43 mg/L	35 mg/kg soil dw	-	-
Sodium Silicate	-	-	348 mg/L	-	-	-

Sodium Carbonate Peroxide	-	-	16.24 mg/L	-	-	-
TAED	2.5 mg/kg sediment dw	-	10 mg/L	5 mg/kg soil dw	-	-
Citric Acid	34.6 mg/kg sediment dw	3.46 mg/kg sediment dw	1 000 mg/L	33.1 mg/kg soil dw	-	-
Linalool	2.22 mg/kg sediment dw	0.222 mg/kg sediment dw	10 mg/L	0.327 mg/kg soil dw	-	-
Delta-Damascone	0.906 mg/kg sediment dw	0.0906 mg/kg sediment dw	2.41 mg/L	0.177 mg/kg soil dw	-	-

## 8.2. Exposure controls

### Personal Protective Equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**Environmental exposure controls** Prevent that the undiluted product reaches surface waters.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Solid
<b>Appearance</b>	Solid
<b>Color</b>	White with coloured speckles
<b>Odor</b>	Pleasant (perfume)
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	Not available. This property is not relevant for the safety and classification of this product
<b>Initial boiling point and boiling range</b>	No data available	Not available. This property is not relevant for the safety and classification of this product
<b>Flammability</b>		Not applicable. This property is not relevant for liquid product forms
<b>Flammability Limit in Air</b>		Not available. This property is not relevant for the safety and classification of this product
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	No Data Available	Not available. This property is not relevant for the safety and classification of this product
<b>Autoignition temperature</b>	No data available	Not available. This property is not relevant for the safety and classification of this product
<b>Decomposition temperature</b>	No Data Available	Not available. This property is not relevant for the safety and classification of this product
<b>pH</b>	9.5 - 11.4	OECD 122
<b>Dynamic viscosity</b>	No Data Available	Not available. This property is not relevant for the

<b>Water solubility</b>	Soluble in water	safety and classification of this product
<b>Solubility(ies)</b>	No Data Available	TMR. A.6
<b>Partition coefficient</b>	No Data Available	Not available. This property is not relevant for the safety and classification of this product
<b>Vapor pressure</b>	No Data Available	Not available. This property is not relevant for the safety and classification of this product
<b>Relative density</b>	0.6 - 0.9	Not available. This property is not relevant for the safety and classification of this product
<b>Relative vapor density</b>	No data available	TMR. A.3
<b>Particle characteristics</b>		Not available. This property is not relevant for the safety and classification of this product
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes  
No information available

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

#### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### 10.4. Conditions to avoid

**Conditions to avoid** None known based on information supplied.

### 10.5. Incompatible materials

**Incompatible materials** None known based on information supplied.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None known based on information supplied.

## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

##### Product Information

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause redness and tearing of the eyes.

**Numerical measures of toxicity**

**Acute toxicity**

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Carbonate	2800 mg/kg bw	> 2000 mg/kg bw (EPA 16 CFR 1500.40)	= 2300 mg/m <sup>3</sup> ( Rat ) 2 h
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	1080 mg/kg bw (OECD 401)	> 2000 mg/kg bw (OECD 402)	-
Sodium Silicate	3400 mg/kg bw (OECD 401)	> 5000 mg/kg bw	> 2.06 mg/L air (OECD 403)
Sodium Carbonate Peroxide	893 mg/kg bw	> 2000 mg/kg bw	-
Linalool	2790 mg/kg bodyweight (rat)	5610 mg/kg (rabbit)	21 mg/l/4h (rat)
delta Damascone	1400 mg/kg (rat)	5001 mg/kg (rabbit)	-

Chemical name	Carcinogenicity	Species	Eye Damage	Species	Developmental toxicity	Species	Mutagenicity	Species
Sodium Chloride	-	-	Y (OECD 405)	-	-	-	-	-
Sodium Carbonate	-	-	Y	-	-	-	-	-
Sodium C10-13 Alkyl Benzenesulfonate	-	-	Y (OECD 405)	-	-	-	-	-
Sodium Silicate	-	-	Y	-	-	-	-	-
Sodium Carbonate Peroxide	-	-	Y (OECD 405)	-	-	-	-	-
Citric Acid	-	-	Y (OECD 405)	-	-	-	-	-
Linalool	-	-	Y (OECD 405)	-	-	-	-	-

Chemical name	Reproductive toxicity	Species	Skin corrosion/irritation	Species	Sensitization	Species
Sodium C10-13 Alkyl Benzenesulfonate	-	-	Y (OECD 404)	-	-	-
Sodium Silicate	-	-	Y (OECD 404)	-	-	-
Linalool	-	-	Y (OECD 404)	-	-	-

Chemical name	Skin sensitization	Species	STOT - single exposure	Target Organs	Species	STOT - repeated exposure	Target Organs	Species	Aspiration hazard
Linalool	Y (OECD 429)	-	-	-	-	-	-	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity** Not considered to be harmful to aquatic life. No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Carbonate	-	300 mg/L (Lepomis macrochirus; 96 h)	-	200 - 227 mg/L (Ceriodaphnia sp.; 48 h))
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	127.9 mg/L (Desmodesmus subspicatus; 72 h)	1.67 mg/L (USEPA OPPTS 850.1075; Lepomis macrochirus; 96 h)	-	2.9 mg/L (OECD 202; Daphnia magna; 48 h)
Sodium Silicate	> 345.4 mg/L (Desmodesmus subspicatus; 72 h)	281 mg/L (Oncorhynchus mykiss; 96 h)	>348 mg/L (Pseudomonas putida; 18 h)	1700 mg/L (EU Method C.2; Daphnia magna; 48 h)
Sodium Carbonate Peroxide	-	70.7 mg/L (Pimephales promelas; 48 h)	-	4.9 mg/L (Daphnia pulex; 48 h)
Linalool	156.7 mg/L	27.8 mg/L (OECD 203;	> 100 mg/L (OECD 209;	59 mg/L (OECD 202;

	(Desmodesmus subspicatus; 96 h)	Oncorhynchus mykiss; 96 h)	activated sludge; 3 h)	Daphnia magna; 48 h)
delta Damascone	-	0.97 mg/L(OECD 203; Oryzias latipes; 96h)	241 mg/L (OECD 209; 3 h)	-

**Chronic Toxicity**

Chemical name	Toxicity to algae (NOEC or ECx)*	Toxicity to fish (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*	Toxicity to other organisms
Sodium Chloride	5800 mg/L (Euglena gracilis; 7 d)	252 mg/L (OECD 210; Pimephales promelas; 33 d)	441 mg/L (OECD 211; Daphnia pulex; 21 d)	35000 mg/L	243 mg/kg soil dw (Similar to OECD 208; Poa pratensis; based on growth; 7 d)
Sodium Carbonate	1 - 10 mg/L	-	-	-	-
Sodium C10-13 Alkyl Benzenesulfonate	0.5 mg/L (USEPA OPPTS 850.5400 (1996); Pseudokirchneriella subcapitata; 4 d)	0.23 mg/L (OECD 210; Oncorhynchus mykiss; 72 d)	1.18 mg/L (OECD 211; Daphnia magna; 21 d)	-	2.4 mg/L (//OECD 218; Chironomus riparius; 28 d)
Sodium Silicate	-	348 mg/L ((OECD 203; Danio rerio; 4 d)	-	-	-
Sodium Carbonate Peroxide	-	-	2 mg/L (Daphnia pulex; 2 d)	-	-
TAED	655 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)	1000 mg/L (OECD 203; Danio rerio; 4 d)	500 mg/L (OECD 211; Daphnia magna; 21 d)	> 1000 mg/L (OECD 209; 0.125 d)	500 mg/kg soil dw (OECD 222; species: eisenia fetida; artificial soil; 56 d)
Citric Acid	425 mg/L (Scenedesmus quadricauda; 8 d)	-	-	-	> 4000 mg/kg bw (Guideline not indicated; Gallus domesticus; 14 d)
Linalool	54.3 mg/L (DIN 38412 L 9; Desmodesmus subspicatus; 4 d)	< 3.5 mg/L (OECD 203; Oncorhynchus mykiss; 4 d)	25 mg/L (OECD 202; Daphnia magna; 2 d)	> 100 mg/L (OECD 209; 0.125 d)	-

**12.2. Persistence and degradability**

**Persistence and degradability**

Chemical name	Ready Biodegradation Test (OECD 301)	Abiotic Degradation Hydrolysis	Abiotic Degradation Photolysis	Biodegradation Other Tests
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts - 68411-30-3	85%CO <sub>2</sub> ; OECD 301 B; 29 d	-	-	85% CO <sub>2</sub> ; 29 d; OECD 301 B
Tetra Acetyl Ethylene Diamine - 10543-57-4	75.1 - 104.6%CO <sub>2</sub> ; OECD 301 B; 27 d	-	-	75.1% (OECD 301 B; aerobic; activated sludge, domestic, non-adapted; CO <sub>2</sub> evolution; 27 d; meets the 10 d window criteria)
Citric Acid - 77-92-9	97% ; CO <sub>2</sub> ; 28 d; OECD 301 B	-	-	93 % (OECD 303 A; aerobic; sludge from a communal sewage treatment plant; COD removal)
Linalool - 78-70-6	64.2% O <sub>2</sub> ; OECD 301 D; 28 d	-	-	-

**12.3. Bioaccumulative potential**

**Bioaccumulation**

There is no data for this product.

**Component Information**

Chemical name	Partition coefficient
Sodium C10-13 Alkyl Benzenesulfonate	1.4
Linalool	2.9

Chemical name	Octanol/water partition coefficient	Bioconcentration factor (BCF)
Sodium C10-13 Alkyl Benzenesulfonate	1.4 (OECD 123)	87 L/kg (OECD 305)
TAED	-0.09	-

Citric Acid	-1.55	3.2 L/kg
Linalool	2.9	-

**12.4. Mobility in soil**

**Mobility in soil** No information available.

Chemical name	log Koc
Sodium C10-13 Alkyl Benzenesulfonate	3.4

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** No information available.

Chemical name	PBT and vPvB assessment
Sodium Carbonate	The substance is not PBT / vPvB PBT assessment does not apply
Sodium C10-13 Alkyl Benzenesulfonate	The substance is not PBT / vPvB PBT assessment does not apply
Sodium Silicate	The substance is not PBT / vPvB PBT assessment does not apply
Sodium Carbonate Peroxide	The substance is not PBT / vPvB PBT assessment does not apply
Linalool	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Waste from residues/unused products**

The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures described in section 8. Dispose of in accordance with local regulations.

**Contaminated packaging**

Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV**

20 01 29\* - detergents containing dangerous substances  
 15 01 10\* - packaging containing residues of or contaminated by dangerous substances

**SECTION 14: Transport information**

**IATA**

- 14.1 UN number or ID number Not regulated
- 14.2
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user

**IMDG**

- 14.1 UN number or ID number Not regulated
- 14.2
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable

14.6 Special precautions for user  
 14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

14.1 UN number or ID number Not regulated  
 14.2  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
 Special Provisions None

**ADR**

14.1 UN number or ID number Not regulated  
 14.2  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
 Special Provisions None

**ADN**

14.1 UN number or ID number Not relevant  
 14.2  
 14.3 Transport hazard class(es) No information available  
 14.4 Packing group Not relevant  
 14.5 Marine pollutant Not regulated

**SECTION 15: Regulatory information**

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

**National regulations**

**France**

Occupational Illnesses (R-463-3, France)

**Germany**

Water hazard class (WGK) obviously hazardous to water (WGK 2)

**Netherlands**

**Poland**

Announcement of the Speaker of the Sejm of the Republic of Poland of 13 April 2018 regarding the publication of a uniform text of the Act - Labor Code (Journal of Laws 2018, item 917, as amended).Announcement of the Speaker of the Sejm of the Republic of Poland of March 15, 2019 regarding the publication of a uniform text of the Act on Waste (Journal of Laws 2019 item 701, as amended).Regulation of the Minister of Development of 7 July 2016, repealing the Regulation on specific requirements for certain products due to their negative environmental impact (Journal of Laws of 2016, item 1099, as amended).Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 regarding the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286 with subsequent amendments).

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Regulation (EC) No. 648/2004 (Detergents regulation) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV

Sodium Carbonate	75.	-
Linalool	75.	-

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**Plant protection products directive (91/414/EEC)**

**EU - Biocides**

**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**

**Chemical Safety Report**

No chemical safety assessment has been carried out for this mixture per REACH regulation.

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

- H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- 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

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Serious eye damage/eye irritation	Expert judgment and weight of evidence determination

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**