

According to Regulation (EC) No. 1907/2006 (REACH) and its latest amendment

Issuing Date: 15-May-2020

Revision date 15-May-2020

Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

|                    |  |
|--------------------|--|
| Product Form       | Mixture                                  |
| Product Name       | Ariel Professional System - S4 White Max |
| Product Identifier | 90796610_A_PGP_CLP_EUR                   |
| Synonyms           | PA00230158                               |
| Product group      | Trade Product                            |

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

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

Product category Laundry Additive - In-Wash Booster

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

|  |   |
|--|---|
| Details of the supplier of the safety data sheet | Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200 |
| 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

## Section 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Serious eye damage/eye irritation Category 2 - (H319)

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Adverse human health effects and symptoms

No information available

### 2.2 Label elements

Label according to Regulation (EC) No. 1272/2008



Signal Word WARNING

Hazard statements H319 - Causes serious eye irritation

Precautionary Statements P102 - Keep out of reach of children

P101 - If medical advice is needed, have product container or label at hand  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing  
 P337 + P313 - If eye irritation persists: Get medical advice/attention  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell

### 2.3 Other hazards

**Other hazards which do not result in classification** No presence of PBT and vPvB ingredients.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

| Chemical name   | CAS No     | EC-No     | REACH Registration No | Weight-% | Classification   | M-Factor (chronic) | M-Factor (acute) |
|-----------------|------------|-----------|-----------------------|----------|--|--------------------|------------------|
| C12-14 Pareth-n | 68439-50-9 | Polymer   |                       | 1 - 5    | Acute Tox. 4 (Oral)(H302)<br>Eye Dam. 1(H318)<br>Aquatic Chronic 3(H412) |                    |                  |
| Alcohol         | 64-17-5    | 200-578-6 | 01-2119457610-43      | 1 - 5    | Flam. Liq. 2(H225)<br>Eye Irrit. 2(H319)                                 |                    |                  |

Classification according to Regulation (EC) No. 1272/2008 [CLP]  
 For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4: FIRST AID MEASURES

### 4.1 Description of first-aid measures

**Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**Skin contact** IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

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

**Symptoms/injuries after inhalation** Coughing. Sneezing.

**Symptoms/injuries after skin contact** Redness. Swelling. Dryness. Itching.

**Symptoms/injuries after eye contact** Severe pain. Redness. Swelling. Blurred vision.

**Symptoms/injuries after ingestion** Oral mucosal or gastro-intestinal irritation. Excessive secretion. Diarrhea. Vomiting.

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

Refer to section 4.1.

## Section 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media** Dry chemical powder. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).

### 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 reaction known under conditions of normal use

**5.3 Advice for firefighters**

**Special protective equipment for fire-fighters** No specific firefighting instructions required.  
**Protective equipment and precautions for firefighters** No information available.

**Section 6: ACCIDENTAL RELEASE MEASURES**

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

**For non-emergency personnel** Wear suitable gloves and eye/face protection.  
**Advice for emergency responders** Wear suitable gloves and eye/face protection.

**6.2 Environmental precautions**

**Environmental precautions** Consumer products ending up down the drain after use. Prevent soil and water pollution. Avoid runoff to waterways and sewers.

**6.3 Methods and materials for containment and cleaning up**

**Methods for containment** Scoop absorbed substance into closing containers.  
**Methods for cleaning up** Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Large Spills: contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.  
**Other information** Not applicable.

**6.4 Reference to other sections**

**Other information** Refer to Sections 8 and 13.

**Section 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

**Advice on safe handling** Avoid contact with eyes. Use personal protective equipment as required. 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**

**Technical measures/Storage conditions** Store in original container. Refer to section 10.  
**Incompatible products** Refer to section 10.  
**Incompatible Materials** Refer to section 10  
**Prohibitions on mixed storage** Not applicable.  
**Requirements for storage rooms and containers** Store in a cool area. Store in a dry area.

**7.3 Specific end uses**

Refer to section 1.2.

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

**8.1 Control parameters**

**National Occupational Exposure Limits**

| Chemical name | CAS No  | Norway  | Ireland        | United Kingdom   | European Union |
|---------------|---------|---|----------------|--|----------------|
| Alcohol       | 64-17-5 | TWA: 500 ppm<br>TWA: 950 mg/m <sup>3</sup><br>STEL: 625 ppm<br>STEL: 1187.5 mg/m <sup>3</sup> | STEL: 1000 ppm | STEL: 3000 ppm<br>STEL: 5760 mg/m <sup>3</sup><br>TWA: 1000 ppm<br>TWA: 1920 mg/m <sup>3</sup> |                |

**Derived No Effect Level (DNEL)**

**Workers**

| Chemical name | CAS No  | Worker - inhalative, short-term - local | Worker - dermal, long-term - systemic | Worker - inhalative, long-term - systemic |
|---------------|---------|---|---------------------------------------|---|
| Alcohol       | 64-17-5 | 1900 mg/m <sup>3</sup>                  | 343 mg/kg bw/d                        | 950 mg/m <sup>3</sup>                     |

**Consumers**

| Chemical name | CAS No  | Consumer - inhalative, short-term - local | Consumer - dermal, short-term - local | Consumer - oral, short-term - systemic |
|---------------|---------|---|---------------------------------------|--|
| Alcohol       | 64-17-5 | 950 mg/m <sup>3</sup>                     |                                       |  |

| Chemical name | CAS No  | Consumer - oral, long-term - systemic | Consumer - inhalative, long-term - local | Consumer - dermal, long-term - local |
|---------------|---------|---------------------------------------|--|--------------------------------------|
| Alcohol       | 64-17-5 | 87 mg/kg bw/d                         |  |                                      |

| Chemical name | CAS No  | Consumer - inhalative, long-term - systemic | Consumer - dermal, long-term - systemic |
|---------------|---------|---|---|
| Alcohol       | 64-17-5 | 114 mg/m <sup>3</sup>                       | 206 mg/kg bw/d                          |

**Predicted No Effect Concentration (PNEC)**

| Chemical name | CAS No  | Fresh Water | Marine water | Intermittent release |
|---------------|---------|-------------|--------------|----------------------|
| Alcohol       | 64-17-5 | 0.96 mg/L   | 0.79 mg/L    | 2.75 mg/L            |

| Chemical name | CAS No  | Freshwater sediment   | Marine sediment       | Sewage treatment plant |
|---------------|---------|-----------------------|-----------------------|------------------------|
| Alcohol       | 64-17-5 | 3.6 mg/kg sediment dw | 2.9 mg/kg sediment dw | 580 mg/L               |

| Chemical name | CAS No  | Soil               | air | Oral |
|---------------|---------|--------------------|-----|------|
| Alcohol       | 64-17-5 | 0.63 mg/kg soil dw |     |      |

**8.2 Exposure controls**

**Appropriate engineering controls** No information available

**Personal protective equipment** Protective personal equipment only required in case of professional use or for large packs (not for household packs). For consumer use please follow recommendation as indicated on the label of the product.

**Hand Protection** Not applicable.

**Eye Protection** Wear eye/face protection.

**Skin and Body Protection** Not applicable.

**Respiratory Protection** Not applicable.

**Thermal hazards** Not applicable.

**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**

| Property                                   | Value / Units              | Test Method / Notes  |
|--|----------------------------|--|
| Appearance                                 | Liquid                     |  |
| Physical state                             | Liquid                     |  |
| Color                                      | colored                    |  |
| Odor                                       | Odorless                   |  |
| Odor threshold                             | No data available          | Perceived odor at typical use conditions   |
| pH   | 6.5 - 10.5                 |  |
| Melting point / freezing point             | No data available          | Not available. This property is not relevant for the safety and classification of this product |
| Boiling point / boiling range              | > 95 °C                    |  |
| Flash point                                | No Flash to Boiling (NFTB) |  |
| Relative Evaporation Rate (butylacetate=1) | No data available          | Not available. This property is not relevant for the safety and classification of this product |

|   |                   |  |
|---|-------------------|--|
| <b>Flammability (solid, gas)</b>                    | Not applicable    | Not available. This property is not relevant for the safety and classification of this product   |
| <b>Upper/lower flammability or explosive limits</b> | No data available |  |
| <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>                             | 1.031             |  |
| <b>Solubility</b>                                   | Soluble in water  |  |
| <b>Partition Coefficient (n-octanol/water)</b>      | Not 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>Viscosity</b>                                    | 100 - 1000 cP     |  |
| <b>Explosive properties</b>                         | No data available | Not applicable. This product is not classified as explosive as it does not contain any substances which possesses explosive properties CLP (Art 14 (2)). |
| <b>Oxidizing properties</b>                         | No data available | Not applicable. This product is not classified as oxidizing as it does not contain any substances which possesses oxidizing properties CLP (Art 14 (2) ) |

## 9.2 Other information

Other information No 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

See section 10.1 on reactivity for more information.

### 10.4 Conditions to Avoid

None under normal use conditions.

### 10.5 Incompatible materials

Not applicable.

### 10.6 Hazardous Decomposition Products

None under normal use conditions.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Mixture

|  |   |
|--|---|
| <b>Acute toxicity</b>                    | Not Classified. Based on the available data, the classification criteria are not met. |
| <b>Skin corrosion/irritation</b>         | Not Classified. Based on the available data, the classification criteria are not met. |
| <b>Serious eye damage/eye irritation</b> | Causes serious eye irritation.  |
| <b>Skin sensitization</b>                | Not Classified. Based on the available data, the classification criteria are not met. |
| <b>Respiratory sensitization</b>         | Not Classified. Based on the available data, the classification criteria are not met. |
| <b>Germ cell mutagenicity</b>            | Not Classified. Based on the available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>                   | Not Classified. Based on the available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | Not Classified. Based on the available data, the classification criteria are not met. |
| <b>STOT - single exposure</b>            | Not Classified. Based on the available data, the classification criteria are not met. |

**STOT - repeated exposure  
Aspiration hazard**

Not Classified. Based on the available data, the classification criteria are not met.  
Not Classified. Based on the available data, the classification criteria are not met.

**Substances in the mixture**

| Chemical name   | CAS No     | Oral LD50                 | Dermal LD50     | Inhalation LC50 |
|-----------------|------------|---------------------------|-----------------|-----------------|
| C12-14 Pareth-n | 68439-50-9 | >300-2000 mg/kg bw (Rat)  | > 5000 mg/kg bw | -               |
| Alcohol         | 64-17-5    | 10470 mg/kg bw (OECD 401) | -               | -               |

**Section 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Ecotoxicity effects**

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.

**Acute toxicity**

| Chemical name   | CAS No     | Fish  | Algae/aquatic plants  | Crustacea  | Toxicity to microorganisms  |
|-----------------|------------|---|---|--|-----------------------------|
| C12-14 Pareth-n | 68439-50-9 | >1-10 mg/L (OECD 203; Cyprinus carpio; flow-through test) | >1-10 mg/L (OECD 201; Desmodesmus subspicatus (green algae); static test) | > 1 - 10 mg/L (OECD 202; Daphnia magna; static test) | -                           |
| Alcohol         | 64-17-5    | 14200 mg/L (US EPA E03-05; Pimephales promelas; 96 h)     | 275 mg/L (//OECD 201; Chlorella vulgaris; 72 h)                           | 5012 mg/L (ASTM E729-80; Ceriodaphnia dubia; 48 h)   | > 1000 mg/L (OECD 209; 3 h) |

**Chronic Toxicity**

| Chemical name | CAS No  | Toxicity to fish (NOEC or ECx)*     | Toxicity to algae (NOEC or ECx)*                | Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)* | Toxicity to Microorganisms (NOEC or ECx)* |
|---------------|---------|-------------------------------------|---|--|---|
| Alcohol       | 64-17-5 | 7900 mg/L (Oryzias latipes; 8.33 d) | 11.5 mg/L (//OECD 201; Chlorella vulgaris; 3 d) | 9.6 mg/L (Ceriodaphnia dubia; 10 d)                                |   |

**12.2 Persistence and degradability****Persistence and degradability**

| Chemical name   | CAS No     | Persistence and degradability | Ready Biodegradation Test (OECD 301)  | Biodegradation Other Tests |
|-----------------|------------|-------------------------------|---|----------------------------|
| C12-14 Pareth-n | 68439-50-9 |                               | > 70 % (OECD 301 A (new version); 28 d; aerobic) and > 60 % (OECD 301 B; 28 d; aerobic) |                            |
| Alcohol         | 64-17-5    |                               | 84% O2; 20 d  | 83%; 3 d                   |

**12.3 Bioaccumulative potential****Bioaccumulative potential**

No information available.

| Chemical name | CAS No  | Bioaccumulative potential  | Octanol/water partition coefficient |
|---------------|---------|--|-------------------------------------|
| Alcohol       | 64-17-5 | Not expected to bioaccumulate due to the low log Kow (log Kow < 4) | -0.35                               |

**12.4 Mobility in soil****Mobility**

No information available.

| Chemical name | CAS No  | log Koc                 |
|---------------|---------|-------------------------|
| Alcohol       | 64-17-5 | 1 (QSAR PCKOCWIN v1.66) |

**12.5 Results of PBT and vPvB assessment**

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

**12.6 Other adverse effects**

**Other adverse effects** No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste from Residues/Unused Products** Dispose of in accordance with local regulations.

**Disposal Recommendations** 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 7.

**EWC Waste Disposal No** 20 01 29\* - detergents containing dangerous substances  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances

**13.2 Additional information**

**Section 14: TRANSPORT INFORMATION**

**IMDG**

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 Marine pollutant Not regulated  
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code No information available

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 Marine pollutant Not regulated

**ADR**

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 Marine pollutant Not regulated

**RID**

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 Marine pollutant Not regulated

**ADN**

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 Marine pollutant Not regulated

## Section 15: REGULATORY INFORMATION

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

<5% Non-ionic surfactants Optical brighteners Preservative, Benzisothiazolinone

#### EU Regulations

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended** Contains no REACH substances with Annex XVII restrictions.

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended** Contains no substance on the REACH candidate list.

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation** Contains no REACH Annex XIV substances.

**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.

**Other regulations, restrictions and prohibition regulations** 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) and its amendment Regulation (EU) 2015/830.

#### National regulatory information

### 15.2 Chemical Safety Assessment

**Chemical Safety Assessment** No chemical safety assessment has been carried out for this mixture per REACH regulation.

## Section 16: OTHER INFORMATION

### 16.1 Indication of changes

**Issuing Date:** 15-May-2020  
**Revision date** 15-May-2020  
**Revision Note** Not applicable

### 16.2 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ATE: Acute Toxicity Estimate  
DNEL: Derived No Effect Level  
EC50: Calculated concentration causing a 50% reduction in cellular reproduction  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods Code  
LC50: Lethal Concentration to 50% of a test population  
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose)  
OECD - Organization for Economic Cooperation and Development  
OEL: Occupational Exposure Limit  
PBT: Persistent, Bioaccumulative and Toxic substance  
PNEC(s): Predicted No Effect Concentration(s)  
REACH- Registration, Evaluation and Authorization of Chemicals  
vPvB: Very Persistent and Very Bioaccumulative

**16.3 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]**

**Serious eye damage/eye irritation**

Category 2 Expert judgment and weight of evidence determination

**16.4 Full text of H-Statements referred to under sections 2 and 3**

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and its amendment Regulation (EU) 2015/830

**16.5 Training Advice**

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

**16.6 Further information**

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

*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.*

**End of SDS**