

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

Issuing Date: 23-Oct-2019

Revision date 23-Oct-2019

Version 1

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

**1.1 Product identifier**

**Product Form** Mixture  
**Product Name** Ariel Formula Pro+  
**Product Identifier** 90789099\_PGP\_CLP\_EUR  
**Synonyms** PA00234183  
**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** PC8 - Biocidal Products (e.g. disinfectants, pest control)  
**Uses advised against** No information available

**Product category** Laundry Powder

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

**Details of the supplier of the safety data sheet** Procter & Gamble UK Brooklands PGP, 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** P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children  
 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 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor  
 P501 - Dispose of contents/ container to an approved waste disposal plant

### 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-% | GHS / CLP Classification 1272/2008 [CLP]  | M-Factor (chronic) | M-Factor (acute) |
|--------------------------------------|------------|-----------|-----------------------|----------|---|--------------------|------------------|
| Sodium Carbonate Peroxide            | 15630-89-4 | 239-707-6 | 01-2119457268-30      | 10 - 20  | Ox. Sol. 3(H272)<br>Acute Tox. 4 (Oral)(H302)<br>Eye Dam. 1(H318)                                 | 1                  | 1                |
| Sodium Carbonate                     | 497-19-8   | 207-838-8 | 01-2119485498-19      | 5 - 10   | Eye Irrit. 2(H319)  | 1                  | 1                |
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 270-115-0 | 01-2119489428-22      | 5 - 10   | Acute Tox. 4 (Oral)(H302)<br>Skin Irrit. 2(H315)<br>Eye Dam. 1(H318)<br>Aquatic Chronic 3(H412)   | 1                  | 1                |
| Sodium Silicate                      | 1344-09-8  | 215-687-4 | 01-2119448725-31      | 5 - 10   | Skin Irrit. 2(H315)<br>Eye Dam. 1(H318)<br>STOT SE 3(H335)  | 1                  | 1                |
| Citric Acid                          | 77-92-9    | 201-069-1 | 01-2119457026-42      | 1 - 5    | Eye Irrit. 2 (H319)   | 1                  | 1                |
| C14-15 Pareth-n                      | 68951-67-7 | polymer   |                       | <1       | Acute Tox. 4 (Oral)(H302)<br>Eye Dam. 1(H318)<br>Aquatic Acute 1(H400)<br>Aquatic Chronic 3(H412) | 1                  | 1                |

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. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get immediate medical attention. Discontinue use of product.

**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/physician.

**Ingestion** IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### 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. Nausea. Vomiting. Excessive secretion. Diarrhea.

### 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>).

**Extinguishing Media Which Must Not Be Used For Safety Reasons** Not applicable.

### 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** In case of inadequate ventilation wear respiratory protection.

## 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. Prevent spreading in sewers.

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

**Methods 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.

**Other information** Avoid contact with skin, eyes and clothing.

### 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. Avoid dust formation. 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. Keep away from heat.

### 7.3 Specific end uses

Cleaning/washing agents and additives.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****National Occupational Exposure Limits****Derived No Effect Level (DNEL)****Workers**

| Chemical Name             | CAS No     | Worker - dermal, short-term - systemic | Worker - inhalative, short-term - systemic | Worker - dermal, short-term - local |
|---------------------------|------------|--|--|-------------------------------------|
| Sodium Carbonate Peroxide | 15630-89-4 |  |  | 12.8 mg/kg bodyweight/day           |

| Chemical Name                        | CAS No     | Worker - inhalative, short-term - local | Worker - dermal, long-term - systemic | Worker - inhalative, long-term - systemic |
|--------------------------------------|------------|---|---------------------------------------|---|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 |   | 85 mg/kg bw/d                         | 6 mg/m <sup>3</sup>                       |
| Sodium Silicate                      | 1344-09-8  |   | 1.59 mg/kg bw/day                     | 5.61 mg/m <sup>3</sup>                    |

| Chemical Name             | CAS No     | Worker - dermal, long-term - local | Worker - inhalative, long-term - local |
|---------------------------|------------|------------------------------------|--|
| Sodium Carbonate Peroxide | 15630-89-4 | 12.8 mg/cm <sup>2</sup>            | 5 mg/m <sup>3</sup>                    |
| Sodium Carbonate          | 497-19-8   |                                    | 10 mg/m <sup>3</sup>                   |

**Consumers**

| Chemical Name                        | CAS No     | Consumer - oral, long-term - systemic | Consumer - inhalative, long-term - local | Consumer - dermal, long-term - local |
|--------------------------------------|------------|---------------------------------------|--|--------------------------------------|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 0.425 mg/kg bw/d                      |  |                                      |
| Sodium Silicate                      | 1344-09-8  | 0.8 mg/kg bw/day                      |  |                                      |
| Citric Acid                          | 77-92-9    | 25 mg/kgbw.d                          |  |                                      |

| Chemical Name                        | CAS No     | Consumer - inhalative, long-term - systemic | Consumer - dermal, long-term - systemic |
|--------------------------------------|------------|---|---|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 1.5 mg/m <sup>3</sup>                       | 42.5 mg/kg bw/d                         |
| Sodium Silicate                      | 1344-09-8  | 1.38 mg/m <sup>3</sup>                      | 0.8 mg/kg bw/day                        |
| Citric Acid                          | 77-92-9    | 87 mg/m <sup>3</sup>                        | 1250 mg/kgbw.d                          |
| C14-15 Pareth-n                      | 68951-67-7 | 0.005 mg/l                                  | 0.05 mg/l                               |

**Predicted No Effect Concentration (PNEC)**

| Chemical Name                        | CAS No     | Fresh Water                   | Marine water                  | Intermittent release          |
|--------------------------------------|------------|-------------------------------|-------------------------------|-------------------------------|
| Sodium Carbonate Peroxide            | 15630-89-4 | 0.035 mg/L                    | 0.035 mg/L                    | 0.035 mg/L                    |
| Sodium Carbonate                     | 497-19-8   | no data; no toxicity expected | no data; no toxicity expected | no data; no toxicity expected |
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 0.268 mg/L                    | 0.027 mg/L                    | 0.017 mg/L                    |
| Sodium Silicate                      | 1344-09-8  | 7.5 mg/L                      | 1 mg/L                        | 7.5 mg/L                      |
| Citric Acid                          | 77-92-9    | 0.44 mg/L                     | 0.044 mg/L                    |                               |
| C14-15 Pareth-n                      | 68951-67-7 | 0.05 mg/L                     | 0.005 mg/L                    |                               |

| Chemical Name                        | CAS No     | Freshwater sediment           | Marine sediment               | Sewage treatment plant        |
|--------------------------------------|------------|-------------------------------|-------------------------------|-------------------------------|
| Sodium Carbonate Peroxide            | 15630-89-4 |                               |                               | 16.24 mg/L                    |
| Sodium Carbonate                     | 497-19-8   | no data; no toxicity expected | no data; no toxicity expected | no data; no toxicity expected |
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 8.1 mg/kg sediment dw         | 6.8 mg/kg sediment dw         | 3.43 mg/L                     |
| Sodium Silicate                      | 1344-09-8  |                               |                               | 348 mg/L                      |
| Citric Acid                          | 77-92-9    | 34.6 mg/kg sediment dw        | 3.46 mg/kg sediment dw        | 1000 mg/L                     |

| Chemical Name    | CAS No   | Soil                 | air | Oral |
|------------------|----------|----------------------|-----|------|
| Sodium Carbonate | 497-19-8 | no data; no toxicity |     |      |

|                                      |            |                    |  |  |
|--------------------------------------|------------|--------------------|--|--|
|                                      |            | expected           |  |  |
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 35 mg/kg soil dw   |  |  |
| Citric Acid                          | 77-92-9    | 33.1 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                                   | Solid                              |  |
| Physical state                               | Solid                              |  |
| Color  | White with coloured speckles       |  |
| Odor   | pleasant (perfume)                 |  |
| Odor threshold                               | No data available                  | Perceived odor at typical use conditions   |
| pH   | 9.5 - 11.4                         | OECD 122   |
| 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                | No data available                  | Not applicable. This property is not relevant for solid product forms  |
| Flash point                                  | No data available                  | Not applicable. This property is not relevant for solid product forms  |
| Relative Evaporation Rate (butylacetate=1)   | No data available                  | Not available. This property is not relevant for the safety and classification of this product   |
| Flammability (solid, gas)                    | Not applicable                     | The product is not flammable   |
| Upper/lower flammability or explosive limits | No data available                  | Not available. This property is not relevant for the safety and classification of this product   |
| Vapor pressure                               | No data available                  | Not applicable. This property is not relevant for solid product forms  |
| Relative density                             | 0.6 - 0.9                          | TMR. A.3   |
| Solubility                                   | Soluble in water                   | TMR. A.6   |
| Partition Coefficient (n-octanol/water)      | Not available                      | Not applicable. This property is not relevant for mixtures   |
| Autoignition temperature                     | No data available                  | Not available. This property is not relevant for the safety and classification of this product   |
| Decomposition temperature                    | No data available                  | Not available. This property is not relevant for the safety and classification of this product   |
| Viscosity                                    | No data available                  | Not applicable. This property is not relevant for solid product forms  |
| Explosive properties                         | 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)). |
| Oxidizing properties                         | Product is not an oxidizer -UN.O.1 |  |

### 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. |
| <b>STOT - repeated exposure</b>          | Not Classified.                | Based on the available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>                 | 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 |
|--------------------------------------|------------|-------------------------------|---|-----------------|
| Sodium Carbonate Peroxide            | 15630-89-4 | 893 mg/kg bw (US EPA 1984)    | > 2000 mg/kg bw (US EPA)  | -               |
| Sodium Carbonate                     | 497-19-8   | 2800 mg/kg bw                 | > 2000 mg/kg bw (US EPA 16 CFR 1500.40)   | -               |
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 1080 mg/kg bw (OECD 401)      | > 2000 mg/kg bw (OECD 402)  | -               |
| Sodium Silicate                      | 1344-09-8  | 3400 mg/kg bw (OECD 401, rat) | > 5000 mg/Kg bw (Read across data: Potassium silicate solution (MR: 2.47), EPA OPPTS 870.1200, rat) | -               |
| Citric Acid                          | 77-92-9    | 5400 mg/kg bw (//OECD 401)    | > 2000 mg/kg bw (OECD 402)  | -               |
| C14-15 Pareth-n                      | 68951-67-7 | > 300 mg/kg bw                | > 2000 mg/kg bw   | -               |

## 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                               |
|--------------------------------------|------------|---|--|--|--|
| Sodium Carbonate Peroxide            | 15630-89-4 | 70.7 mg/L (Pimephales promelas; 96 h)                             | -  | 4.9 mg/L (Daphnia pulex; 48 h)   | -  |
| Sodium Carbonate                     | 497-19-8   | 300 mg/L (Lepomis macrochirus; 96 h)                              | -  | 200 mg/L (Ceriodaphnia sp.; 48 h)  | -  |
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 1.67 mg/L (Guideline: US EPA 850.1075; Lepomis macrochirus; 96 h) | 7.4 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)                                   | 2.9 mg/L (OECD 202; Daphnia magna; 48 h)                                 | -  |
| Sodium Silicate                      | 1344-09-8  | 1108 mg/L (OECD 203, Brachydanio rerio, MR: 3.46, 34.8%)          | 207 mg/L (DIN 38412, Teil 9, Scenedesmus subspicatus, biomass, MR: 3, 34.54% active) | 1700 mg/L (EU Method C.2, Daphnia magna, static, MR: 3.2 and 35% active) | > 348 mg/L (Pseudomonas putida, growth inhibition, pH>9) |
| Citric Acid                          | 77-92-9    | 440 mg/L (//OECD 203; Leuciscus idus melanotus; 48 h)             | -  | 1535 mg/L (Daphnia magna; 24 h)  | -  |
| C14-15 Pareth-n                      | 68951-67-7 | 1.02 mg/L (Guideline not indicated; Pimephales promelas; 96 h)    | 0.088 mg/L (Guideline: US EPA; Selenastrum capricornutum; 96 h)                      | 0.38 mg/L (Guideline not indicated; Daphnia magna)                       | > 100 mg/L   |

### 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)* |
|--------------------------------------|------------|---|--|--|---|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 0.23 mg/L (// OECD 210; Oncorhynchus mykiss; 72 d)        | < 1.28 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)             | 1.18 mg/L (// OECD 211; Daphnia magna; 21 d)                       |   |
| Citric Acid                          | 77-92-9    |   | 425 mg/L (Scenedesmus quadricauda; 8 d)                          |  |   |
| C14-15 Pareth-n                      | 68951-67-7 | 0.121 mg/L (Guideline not indicated; Pimephales promelas) | < 0.001 mg/L (Guideline: US EPA; Selenastrum capricornutum; 4 d) | 0.05 mg/L (Guideline not indicated; Ceriodaphnia dubia; 7 d)       |   |

## 12.2 Persistence and degradability

### Persistence and degradability

| Chemical Name                        | CAS No     | Persistence and degradability | Ready Biodegradation Test (OECD 301)     |
|--------------------------------------|------------|-------------------------------|--|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | Biodegradable.                | 85% CO <sub>2</sub> ; OECD 301 B         |
| Citric Acid                          | 77-92-9    | Biodegradable.                | 100% DOC; OECD 301 E; 19 d; > 60% (10 d) |

## 12.3 Bioaccumulative potential

**Bioaccumulative potential** No information available.

| Chemical Name                        | CAS No     | Bioaccumulative potential  | Octanol/water partition coefficient |
|--------------------------------------|------------|--|-------------------------------------|
| Sodium Carbonate Peroxide            | 15630-89-4 | Not measured   |                                     |
| Sodium Carbonate                     | 497-19-8   | Not measured   |                                     |
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | Not expected to bioaccumulate due to the low log Kow (log Kow < 4) | 1.4                                 |
| Sodium Silicate                      | 1344-09-8  | Not measured   |                                     |
| Citric Acid                          | 77-92-9    | Not expected to bioaccumulate due to the low log Kow (log Kow < 4) | -1.55                               |

**12.4 Mobility in soil**

**Mobility** No information available.

**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. For handling waste, see measures described in section 7. Empty, uncleaned packaging need the same disposal considerations as filled packaging.

**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

**IATA**

**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**

|  |                |
|--|----------------|
| <b>14.1 UN Number</b>                  | Not applicable |
| <b>14.2 UN proper shipping name</b>    | Not applicable |
| <b>14.3 Transport hazard class(es)</b> | Not applicable |
| <b>14.4 Packing Group</b>              | Not applicable |
| <b>14.5 Marine pollutant</b>           | Not regulated  |

**Section 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****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** 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).

**National regulatory information**

No information available

**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**

|                      |                |
|----------------------|----------------|
| <b>Issuing Date:</b> | 23-Oct-2019    |
| <b>Revision date</b> | 23-Oct-2019    |
| <b>Revision Note</b> | 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

H272 - May intensify fire; oxidizer  
H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H400 - Very toxic to aquatic life  
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**