

According to Regulation (EC) No. 1907/2006 (REACH) and its amendment Regulation (EU) 2015/830

Issuing Date 04-Mar-2019

Revision date 04-Mar-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 Professional System - S1 Actilift Detergent. Liquid Detergent |
| Product Identifier | 91522184_PGP_CLP_EUR |
| Synonyms | PA00226300 |
| 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 Liquid

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) |
| Chronic aquatic toxicity | Category 3 - (H412) |

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

H412 - Harmful to aquatic life with long lasting effects
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
 P501 - Dispose of contents/container to an appropriate local waste system

EUH208 - Contains Isoeugenol . May produce an allergic reaction.

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 C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 270-115-0 | 01-2119489428-22 | 10 - 20 | Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Eye Dam. 1(H318) Aquatic Chronic 3(H412) | 1 | 1 |
| C14-15 Pareth-n | 68951-67-7 | polymer | | 1 - 5 | Acute Tox. 4 (Oral)(H302) Eye Dam. 1(H318) Aquatic Acute 1(H400) Aquatic Chronic 3(H412) | 1 | 1 |
| C12-14 Pareth-n | 68002-97-1 | | | 1 - 5 | Acute Tox. 4 (Oral)(H302) Eye Dam. 1(H318) Aquatic Chronic 3(H412) | 1 | 1 |
| Sodium Cumenesulfonate | 28348-53-0 | 248-983-7 | 01-2119489411-37 | 1 - 5 | Eye Irrit. 2(H319) STOT SE 3(H335) | 1 | 1 |
| Lauramine Oxide | 308062-28-4 | 931-292-6 | 01-2119490061-47 | 1 - 5 | Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Eye Dam. 1(H318) Aquatic Acute 1(H400) Aquatic Chronic 2(H411) | 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 or rash occurs: Get medical advice/attention.
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. 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 (CO₂).

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 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 Store in a cool area. Store in a dry area.

and containers

7.3 Specific end uses

Refer to section 1.2.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National Occupational Exposure Limits No information available

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 |
|--------------------------------------|-------------|---|---------------------------------------|---|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | | 85 mg/kg bw/d | 6 mg/m ³ |
| Sodium Cumenesulfonate | 28348-53-0 | | 136.25 mg/kg bw/d | 26.9 mg/m ³ |
| Lauramine Oxide | 308062-28-4 | | 11 mg/kg bw/d | 6.2 mg/m ³ |

| Chemical name | CAS No. | Worker - dermal, long-term - local | Worker - inhalative, long-term - local |
|--------------------------------------|------------|------------------------------------|--|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | | 6 mg/m ³ |
| Sodium Cumenesulfonate | 28348-53-0 | 0.096 mg/cm ² | |

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 | 1.5 mg/m ³ | |
| Sodium Cumenesulfonate | 28348-53-0 | 3.8 mg/kg bw/d | | 0.048 mg/cm ² |
| Lauramine Oxide | 308062-28-4 | 0.44 mg/kg bw/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 ³ | 42.5 mg/kg bw/d |
| C14-15 Pareth-n | 68951-67-7 | 0.005 mg/l | 0.05 mg/l |
| Sodium Cumenesulfonate | 28348-53-0 | 6.6 mg/m ³ | 68.1 mg/kg bw/d |
| Lauramine Oxide | 308062-28-4 | 1.53 mg/m ³ | 5.5 mg/kg bw/d |

Predicted No Effect Concentration (PNEC)

| Chemical name | CAS No. | Fresh Water | Marine water | Intermittent release |
|--------------------------------------|-------------|-------------|--------------|----------------------|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 0.268 mg/L | 0.027 mg/L | 0.017 mg/L |
| C14-15 Pareth-n | 68951-67-7 | 0.05 mg/L | 0.005 mg/L | |
| Sodium Cumenesulfonate | 28348-53-0 | 0.23 mg/L | 0.023 mg/L | 2.3 mg/L |
| Lauramine Oxide | 308062-28-4 | 0.0335 mg/L | 0.00335 mg/L | 0.0335 mg/L |

| Chemical name | CAS No. | Freshwater sediment | Marine sediment | Sewage treatment plant |
|--------------------------------------|-------------|-------------------------|-------------------------|------------------------|
| 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 Cumenesulfonate | 28348-53-0 | 0.862 mg/kg sediment dw | 0.086 mg/kg sediment dw | 100 mg/L |
| Lauramine Oxide | 308062-28-4 | 5.24 mg/kg sediment dw | 0.524 mg/kg sediment dw | 24 mg/L |

| Chemical name | CAS No. | Soil | air | Oral |
|--------------------------------------|------------|---------------------|-----|------|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 35 mg/kg soil dw | | |
| Sodium Cumenesulfonate | 28348-53-0 | 0.037 mg/kg soil dw | | |

| | | | | |
|-----------------|-------------|--------------------|--|--|
| Lauramine Oxide | 308062-28-4 | 1.02 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 | Coloured | |
| Odor | pleasant (perfume) | |
| Odor threshold | No data available | Perceived odor at typical use conditions |
| pH | 7 - 9 | |
| 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 - 105 °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 |
| Flammability (solid, gas) | Not applicable | Not applicable. This property is not relevant for liquid product forms |
| 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 available. This property is not relevant for the safety and classification of this product |
| Relative density | 1-1.2 | |
| Solubility | Soluble in water | |
| 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 | 500 - 2000 cP | |
| 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 | 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

| | |
|--|---|
| Acute toxicity | Not Classified. Based on the available data, the classification criteria are not met. |
| Skin corrosion/irritation | Not Classified. Based on the available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Skin sensitization | Not Classified. Based on the available data, the classification criteria are not met. |
| Respiratory sensitization | Not Classified. Based on the available data, the classification criteria are not met. |
| Germ cell mutagenicity | Not Classified. Based on the available data, the classification criteria are not met. |
| Carcinogenicity | Not Classified. Based on the available data, the classification criteria are not met. |
| Reproductive toxicity | Not Classified. Based on the available data, the classification criteria are not met. |
| STOT - single exposure | Not Classified. Based on the available data, the classification criteria are not met. |
| STOT - repeated exposure | Not Classified. Based on the available data, the classification criteria are not met. |
| Aspiration hazard | 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 C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 1080 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 | - |
| Sodium Cumenesulfonate | 28348-53-0 | > 7000 mg/kg bw (OECD 401) | > 2000 mg/kg bw (//OECD 402) | > 6.41 mg/L air |
| Lauramine Oxide | 308062-28-4 | 1064 mg/kg bw (OECD 401) | > 2000 mg/kg bw (OECD 402) | - |

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Acute toxicity

| Chemical name | CAS No. | Fish | Algae/aquatic plants | Crustacea | Toxicity to microorganisms |
|--------------------------------------|------------|--|---|--|----------------------------|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 1.67 mg/L (US EPA 850.1075; Lepomis macrochirus; 96 h) | 127.9 mg/L (88/302/EWG; Desmodesmus subspicatus; 72 h) | 2.9 mg/L (OECD 202; Daphnia magna; 48 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 |

| | | | | | |
|------------------------|-------------|--|--|--|--|
| Sodium Cumenesulfonate | 28348-53-0 | > 1000 mg/L (//US EPA OTS 797.1400; Oncorhynchus mykiss; 96 h) | > 230 mg/L (US EPA OTS 797.1050; Pseudokirchnerella subcapitata; 96 h) | > 1000 mg/L (US EPA OTS 797.1300; Daphnia magna; 48 h) | EC10: > 1000 mg/L (Data on CAS# 28348-53-0; OECD 209; activated sludge of a predominantly domestic sewage; static; freshwater; based on active ingredient) |
| Lauramine Oxide | 308062-28-4 | 2.67 mg/L (Pimephales promelas; 96 h) | 0.266 mg/L (//OECD 201; Pseudokirchneriella subcapitata; 72 h) | 3.1 mg/L (OECD 202; Daphnia magna; 48 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)* |
|--------------------------------------|-------------|---|--|--|---|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | 0.23 mg/L (Oncorhynchus mykiss; 72 d) | 2.4 mg/L (88/302/EWG; Desmodesmus subspicatus; 3 d) | 0.5 mg/L (Ceriodaphnia sp.; 7 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) | |
| Sodium Cumenesulfonate | 28348-53-0 | | 31 mg/L (US EPA OTS 797.1050; Pseudokirchnerella subcapitata; 4 d) | | > 1000 mg/L (OECD 209; 0.125 d) |
| Lauramine Oxide | 308062-28-4 | 0.42 mg/L (//US EPA OPPTS 850.1500; Pimephales promelas; 302 d) | 0.078 mg/L (//OECD 201; Pseudokirchneriella subcapitata; 3 d) | 0.7 mg/L (//OECD 211; Daphnia magna; 21 d) | 24 mg/L (Pseudomonas putida; 18 h) |

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 ₂ ; OECD 301 B |
| Sodium Cumenesulfonate | 28348-53-0 | | 99.8% CO ₂ ; OECD 301 B; > 60% (10 d) |
| Lauramine Oxide | 308062-28-4 | Biodegradable. | 90% CO ₂ ; OECD 301 B; > 60% (10 d) |

12.3 Bioaccumulative potential

Bioaccumulative potential

No information available.

| Chemical name | CAS No. | Bioaccumulative potential | Octanol/water partition coefficient |
|--------------------------------------|-------------|--|-------------------------------------|
| Sodium C10-13 Alkyl Benzenesulfonate | 68411-30-3 | Not expected to bioaccumulate due to the low log Kow (log Kow < 4) | 1.4 |
| Sodium Cumenesulfonate | 28348-53-0 | | -1.1 |
| Lauramine Oxide | 308062-28-4 | Not expected to bioaccumulate due to the low log Kow (log Kow < 4) | < 2.7 |

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. 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

| | |
|---------------------------------|----------------|
| 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%-15% Anionic surfactants, 5%-15% Non-ionic surfactants, 5%-15% Soap, <5% Phosphonates Enzymes, Optical brighteners
Perfumes, Citronellol

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).

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

| | |
|----------------------|----------------|
| Issuing Date | 04-Mar-2019 |
| Revision date | 04-Mar-2019 |
| 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
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)
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

Chronic aquatic toxicity

Category 3 - Calculation method

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

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
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
H411 - Toxic to aquatic life with long lasting effects
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