

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 (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 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 <sup>3</sup>
Sodium Cumenesulfonate	28348-53-0		136.25 mg/kg bw/d	26.9 mg/m <sup>3</sup>
Lauramine Oxide	308062-28-4		11 mg/kg bw/d	6.2 mg/m <sup>3</sup>

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 <sup>3</sup>
Sodium Cumenesulfonate	28348-53-0	0.096 mg/cm <sup>2</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	1.5 mg/m <sup>3</sup>	
Sodium Cumenesulfonate	28348-53-0	3.8 mg/kg bw/d		0.048 mg/cm <sup>2</sup>
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 <sup>3</sup>	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 <sup>3</sup>	68.1 mg/kg bw/d
Lauramine Oxide	308062-28-4	1.53 mg/m <sup>3</sup>	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

<b>Appropriate engineering controls</b>	No information available
<b>Personal protective equipment</b>	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.
<b>Hand Protection</b>	Not applicable.
<b>Eye Protection</b>	Wear eye/face protection.
<b>Skin and Body Protection</b>	Not applicable.
<b>Respiratory Protection</b>	Not applicable.
<b>Thermal hazards</b>	Not applicable.
<b>Environmental exposure controls</b>	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

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

<b>Issuing Date</b>	04-Mar-2019
<b>Revision date</b>	04-Mar-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  
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**