



SAFETY DATA SHEET

This Safety Data Sheet (SDS) was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 (in particular as amended by Commission Regulation (EU) 2020/878 with respect to SDSs) and Regulation (EC) No. 1272/2008 (CLP)

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Revision Number 1

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

1.1. Product identifier

Product Identifier C-20102536-001_RET_CLPR7_EUR_SAW
Product Name Ariel All in 1 Original POD Washing Capsules
Product Form Mixture
Pure substance/mixture Mixture

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

Recommended use Intended for general public
Uses advised against No information available
Main user category SU 21 - Consumer uses: Private households (= general public = consumers)
Product category Laundry Unit Dose
Use category PC35 - Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet

Supplier	Manufacturer
Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200	P&G Amiens, Zone Industrielle, Rue Andre, Durouchez, BP 1336, 80013, Amiens, France Tel: 33-3-22-543200 Fax: 33-3-22-435466
P&G DCE bvba/sprl-Belgium Dist. Div., Temselaan 100, B-1853 Strombeek-Bever, Belgium (IE) 1800 535 119	

For further information, please contact

E-mail address pgsds.im@pg.com

1.4. Emergency telephone number

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements



Signal word
Danger

Hazard statements

H315 - Causes skin irritation
H318 - Causes serious eye damage
H412 - Harmful to aquatic life with long lasting effects

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

P102 - Keep out of reach of children
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes
P302 + P352 - IF ON SKIN: Wash with plenty of water
P310 - Immediately call a POISON CENTER/doctor
P501 - Dispose of contents/container to an appropriate local waste system

EUH208 - Contains Tetramethyl Acetyloctahydronaphthalenes, Tetrahydrolinalool, Undecanal, 2-Methyl-, delta Damascone May produce an allergic reaction.

2.3. Other hazards

No information available

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
MEA-C10-13 Alkyl Benzenesulfonate	85480-55-3	>30	01-21199058 42-39	287-335-8	Acute Tox. 4 (Oral)(H302) Aquatic Chronic 3(H412) Eye Dam. 1(H318) Skin Irrit. 2(H315)	-	-	-
Mea-Laureth Sulfate	68184-04-3	10 - 20	No data available	-	Skin Irrit. 2(H315) Eye Dam. 1(H318) Aquatic Chronic 3(H412)	-	-	-

C12-14 Pareth-n	68439-50-9	1 - 5	No data available	Polymer	Acute Tox. 4 (Oral)(H302) Aquatic Chronic 3(H412) Eye Dam. 1(H318)	-	-	-
Tetramethyl Acetyloctahydronaphthalenes	54464-57-2	0 - 1	01-21194899 89-04	259-174-3 259-175-9 268-978-3 268-979-9 915-730-3	Aquatic Chronic 2(H411) Skin Irrit. 2(H315) Skin Sens. 1B(H317)	-	-	-
C12-16 Pareth-n	68551-12-2	0 - 1	No data available	500-221-7	Eye Irrit. 2(H319) Aquatic Acute 1(H400) Aquatic Chronic 3(H412)	-	-	-
Amyl Salicylate	2050-08-0	0 - 1	01-21199694 44-27	218-080-2 911-280-7	Acute Tox. 4 (Oral)(H302) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)	-	-	-
Tetrahydrolinalool	78-69-3	0 - 1	01-21194547 88-21	201-133-9	Eye Irrit. 2(H319) Skin Irrit. 2(H315) Skin Sens. 1B(H317)	-	-	-
Methylundecanal	110-41-8	0 - 1	01-21199694 43-29	203-765-0	Aquatic Acute 1(H400) Aquatic Chronic 1(H410) Skin Irrit. 2(H315) Skin Sens. 1B(H317)	-	-	-
Oxacyclohexadecanone	111879-80-2	0 - 1	01-00000168 83-62	422-320-3	Aquatic Acute 1(H400) Aquatic Chronic 2(H411)	-	-	-
delta Damascone	57378-68-4	0 - 1	01-21195351 22-53	260-709-8 275-156-8	Acute Tox. 4 (Oral)(H302) Aquatic Acute 1(H400) Aquatic Chronic 1(H410) Skin Irrit. 2(H315) Skin Sens. 1A(H317)	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

No information available

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

Symptoms	Coughing and/ or wheezing. Redness. Swelling of tissue. Itching. Sneezing. Dryness. Pain. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive secretion. Blurred vision.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	None in particular.
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5.3. Advice for firefighters

Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Scoop absorbed substance into closing containers.
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small quantities of liquid spill: 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.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin. Avoid contact with eyes. Use personal protection equipment. Do not eat, drink or smoke when using this product.

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

Biological occupational exposure limits

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

Derived No Effect Level (DNEL) Long term.

Chemical name	Worker - dermal, long-term - systemic	Worker - inhalative, long-term - systemic	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
MEA-C10-13 Alkyl Benzenesulfonate	119 mg/kg bw/day	6.71 mg/m ³	-	12 mg/m ³
Tetramethyl Acetyloctahydronaphthalenes	3.6 mg/kg bw/day	7.33 mg/m ³	648 mg/cm ² (µg/cm ²)	-
Amyl Salicylate	0.9 mg/kg bw/day	3.17 mg/m ³	-	-
Tetrahydrolinalool	3.16 mg/kg bw/day	11.14 mg/m ³	0.19 mg/cm ²	-
Methylundecanal	10.46 mg/kg bw/day	36.89 mg/m ³	35.7 mg/cm ²	92.21 mg/m ³
delta Damascone	0.4 mg/kg bw/day	1.5 mg/m ³	0.014 mg/cm ²	-

Chemical name	Consumer - oral, long-term - local	Consumer - inhalative, long-term - local	Consumer - dermal, long-term - local
MEA-C10-13 Alkyl Benzenesulfonate	-	3 mg/m ³	-
Tetramethyl Acetyloctahydronaphthalenes	-	-	0.38 mg/cm ²
Tetrahydrolinalool	-	-	0.19 mg/cm ²
Methylundecanal	-	22.74 mg/m ³	17.86 mg/cm ²

Chemical name	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic
MEA-C10-13 Alkyl Benzenesulfonate	0.425 mg/kg bw	1.18 mg/m ³	42.5 mg/kg bw/day
Tetramethyl Acetyloctahydronaphthalenes	1.25 mg/kg bw	2.16 mg/m ³	2.15 mg/kg bw/day
Amyl Salicylate	0.45 mg/kg bw	0.78 mg/m ³	0.45 mg/kg bw/day
Tetrahydrolinalool	1.58 mg/kg bw	2.75 mg/m ³	1.58 mg/kg bw/day
Methylundecanal	5.23 mg/kg bw	9.1 mg/m ³	5.23 mg/kg bw/day
delta Damascone	0.25 mg/kg bw	0.43 mg/m ³	0.25 mg/kg bw/day

Derived No Effect Level (DNEL) Short term.

Chemical name	Worker - dermal, short-term - systemic	Worker - inhalative, short-term - systemic	Worker - dermal, short-term - local	Worker - inhalative, short-term - local
Tetrahydrolinalool	-	-	2.760 mg/cm ²	-
Methylundecanal	100 mg/kg bw/day	352.63 mg/m ³	71.43 mg/cm ²	881.58 mg/m ³
delta Damascone	-	-	0.014 mg/cm ²	-

Chemical name	Consumer - inhalative, short-term - local	Consumer - dermal, short-term - local
Tetrahydrolinalool	-	2.760 mg/cm ²
Methylundecanal	217.39 mg/m ³	35.71 mg/cm ²
delta Damascone	-	0.009 mg/cm ²

Chemical name	Consumer - oral, short-term - systemic	Consumer - inhalative, short-term - systemic	Consumer - dermal, short-term - systemic
Methylundecanal	25 mg/kg bw	86.96 mg/m ³	50 mg/kg bw/day

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Fresh Water	Marine water	Intermittent release
MEA-C10-13 Alkyl Benzenesulfonate	0.268 mg/kg bw	0.027 mg/kg bw	0.022 mg/kg bw
Tetramethyl Acetyloctahydronaphthalenes	0.003 mg/kg bw	0 mg/kg bw	-
Amyl Salicylate	0.001 mg/kg bw	0 mg/kg bw	0.008 mg/kg bw
Tetrahydrolinalool	0.009 mg/kg bw	0.001 mg/kg bw	0.089 mg/kg bw
Methylundecanal	0.66 mg/kg bw	0 mg/kg bw	0.002 mg/kg bw
delta Damascone	0.007 mg/kg bw	0.001 mg/kg bw	0.004 mg/kg bw

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment plant	Soil	Air	Oral
MEA-C10-13 Alkyl Benzenesulfonate	8.1 mg/kg dwt	0.81 mg/kg dwt	3.43 mg/kg bw	35 mg/kg dwt	-	-
Tetramethyl Acetyloctahydronaphthalenes	3.73 mg/kg dwt	0.75 mg/kg dwt	10 mg/kg bw	2.7 mg/kg dwt	-	-
Amyl Salicylate	0.389 mg/kg dwt	0.039 mg/kg dwt	10 mg/kg bw	1.786 mg/kg dwt	-	-
Tetrahydrolinalool	0.082 mg/kg dwt	0.008 mg/kg dwt	450 mg/kg bw	0.011 mg/kg dwt	-	-
Methylundecanal	0.265 mg/kg dwt	0.027 mg/kg dwt	10 mg/kg bw	0.053 mg/kg dwt	-	-
delta Damascone	0.906 mg/kg dwt	0.091 mg/kg dwt	2.41 mg/kg bw	0.177 mg/kg dwt	-	-

8.2. Exposure controls

Personal Protective Equipment

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

Hand protection Protective gloves.

Skin and body protection No special protective equipment required.

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Color	Coloured
Odor	Pleasant (perfume)
Odor threshold	Not applicable

<u>Property</u>	<u>Values</u>
Melting point / freezing point	No data available

Initial boiling point and boiling range > 90 °C

Flammability

Flammability Limit in Air

Upper flammability or explosive limits No data available

Lower flammability or explosive limits No data available

Flash point > 93 °C

Autoignition temperature No data available

Decomposition temperature No Data Available

pH 7 - 8

Dynamic viscosity No Data Available

Water solubility Soluble in water
Solubility(ies) No Data Available

Partition coefficient No Data Available

Vapor pressure No Data Available

Relative density 1

Relative vapor density No data available

Particle characteristics

Particle Size No information available

Particle Size Distribution No information available

Remarks • Method

Not available. This property is not relevant for the safety and classification of this product

Not applicable. This property is not relevant for liquid product forms

Not available. This property is not relevant for the safety and classification of this product

Closed cup

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

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

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
MEA-C10-13 Alkyl Benzenesulfonate	1089 mg/kg (RAT)	2504 mg/kg (RABBIT)	-
C12-14 Pareth-n	>300-2000 mg/kg bw (Rat)	> 5000 mg/kg bw	-
Tetramethyl Acetyloctahydronaphthalenes	//	//	//
Amyl Salicylate	= 4100 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Tetrahydrolinalool	8270 mg/kg bw	> 5000 mg/kg bw	> 0.885 mg/L air
Methylundecanal	5001 mg/kg (RAT)	8281 mg/kg (RABBIT)	-
delta Damascone	1400 mg/kg (RAT)	5001 mg/kg (RABBIT)	-

Chemical name	Carcinogenicity	Species	Eye Damage	Species	Developmental toxicity	Species	Mutagenicity	Species
MEA-C10-13 Alkyl Benzenesulfonate	-	-	Y (OECD 405)	-	-	-	-	-
Tetrahydrolinalool	-	-	Y	-	-	-	-	-

Chemical name	Reproductive toxicity	Species	Skin corrosion/irritation	Species	Sensitization	Species
MEA-C10-13 Alkyl Benzenesulfonate	-	-	Y (100%; OECD 404)	-	-	-
Tetramethyl Acetyloctahydronaphthalenes	-	-	Y (100%; OECD 439)	-	-	-
Tetrahydrolinalool	-	-	Y	-	-	-
Methylundecanal	-	-	Y	-	-	-
delta Damascone	-	-	Y (EU Method B.46)	-	-	-

Chemical name	Skin sensitization	Species	STOT - single exposure	Target Organs	Species	STOT - repeated exposure	Target Organs	Species	Aspiration hazard
Tetramethyl Acetyloctahydronaphthalenes	Y (OECD 429)	-	-	-	-	-	-	-	-
Tetrahydrolinalool	Y (OECD 429)	-	-	-	-	-	-	-	-
Methylundecanal	Y (OECD 429)	-	-	-	-	-	-	-	-
delta Damascone	Y (OECD 429)	-	-	-	-	-	-	-	-

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

- Skin corrosion/irritation** Irritating to skin.
- Serious eye damage/eye irritation** Risk of serious damage to eyes.
- Respiratory or skin sensitization** Not applicable.
- Germ cell mutagenicity** None known.
- Carcinogenicity** None known.
- Reproductive toxicity** None known.
- STOT - single exposure** None known.
- STOT - repeated exposure** None known.

Aspiration hazard Not applicable.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

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

11.2.2. Other information

Other adverse effects None known.

SECTION 12: Ecological information

12.1. Toxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
MEA-C10-13 Alkyl Benzenesulfonate	10.9 mg/L (OECD 201; Microcystis aeruginosa; 96 h)	2.22 mg/L (OECD 203; Pimephales promelas; 96 h)	-	7.01 mg/kg bw (EPA/6000-4-85-013; Daphnia magna; 48 h)
C12-14 Pareth-n	>1-10 mg/L (OECD 201; Desmodesmus subspicatus (green algae); static test)	1.2 mg/L (OECD 203; Danio rerio; 96 h)	3 mg/kg bw (Pseudomonas putida; 5 h)	> 1 - 10 mg/L (OECD 202; Daphnia magna; static test)
Tetramethyl Acetyloctahydronaphthalenes	2.6 mg/L (//OECD 201; Desmodesmus subspicatus; 72 h)	1.3 mg/L (//OECD 203; Lepomis macrochirus; 96 h)	-	1.38 mg/kg bw (//OECD 202; Daphnia magna; 48 h)
Amyl Salicylate	0.77 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	1.34 mg/L (EC 440/2008 C.1; Danio rerio; 96 h)	-	0.88 mg/kg bw (OECD 202; Daphnia magna; 48 h)
Tetrahydrolinalool	21.6 mg/L (Desmodesmus subspicatus; 72 h)	8.9 mg/L (OECD 203; Danio rerio; 96 h)	(EC50: 1000 mg/L (Pseudomonas putida; 0.5 h))	14.2 mg/kg bw (OECD 202; Daphnia magna; 48 h)
Methylundecanal	0.18 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	0.35 mg/L (OECD 203; Oncorhynchus mykiss; 96 h)	-	0.21 mg/kg bw (OECD 202; Daphnia magna; 48 h)
delta Damascone	4.54 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	0.97 mg/L (OECD 203; Oryzias latipes; 96 h)	241 mg/kg bw (OECD 209; activated sludge; 3 h)	1.18 mg/kg bw (OECD 211; Daphnia magna; 21 d)

Chronic Toxicity

Chemical name	Toxicity to algae (NOEC or ECx)*	Toxicity to fish (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*	Toxicity to other organisms
MEA-C10-13 Alkyl Benzenesulfonate	5.7 mg/kg bw (OECD 201; Scenedesmus quadricauda; 3 d)	0.23 mg/kg bw (Oncorhynchus mykiss; 72 d)	0.293 mg/kg bw (Cocconeis placentula; 28 d)	-	0.268 mg/L (Read across data on dodecyl linear alkylbenzene sulfonate ; guideline not indicated; mayfly, chironomid, and aquatic worm; freshwater; 56 d)
Tetramethyl Acetyloctahydronaphthalenes	2.6 mg/kg bw (//OECD 201; Desmodesmus subspicatus; 3 d)	0.16 mg/kg bw (OECD 210; Danio rerio; 30 d)	0.028 mg/kg bw (OECD 211; Daphnia magna; 21 d)	(> 100 mg/L (OECD 301 F; 42 d))	-

Amyl Salicylate	0.2 mg/kg bw (OECD 201; Pseudokirchneriella subcapitata; 3 d)	-	-	-	-
Tetrahydrolinalool	9.5 mg/L (DIN 38 412, L9; Desmodermus subspicatus; 3 d)	5 mg/L (OECD 203; Danio rerio; 4 d)	8.2 mg/L (OECD 202; Daphnia magna; 2 d)	(EC10: 450 mg/L (DIN 38412-27; Pseudomonas putida; 0.5 h))	-
Methylundecanal	0.089 mg/kg bw (OECD 201; Pseudokirchneriella subcapitata; 3 d)	0.11 mg/kg bw (OECD 203; Oncorhynchus mykiss; 4 d)	0.033 mg/kg bw (OECD 211; Daphnia magna; 21 d)	(100 mg/L (OECD 301F; activated sludge of a predominantly domestic sewage; 22 d))	-

12.2. Persistence and degradability

Persistence and degradability

Chemical name	Ready Biodegradation Test (OECD 301)	Abiotic Degradation Hydrolysis	Abiotic Degradation Photolysis	Biodegradation Other Tests
MEA-C10-13 Alkyl Benzenesulfonate	85 % (CO ₂ ; OECD 301 B; 29 d)	-	-	t1/2: < 22 d (Read across data on sodium 4-undecylbenzenesulfonate; guideline not indicated; sludge amended soil)
Mea-Laureth Sulfate	> 90% (OECD 303 A)	-	-	-
C12-14 Pareth-n	95 % (O ₂ ; OECD 301 F; 28 d)	-	-	-
Tetramethyl Acetyloctahydronaphthalenes	11 % (O ₂ ; OECD 301 C; 28 d)	-	-	-
C12-16 Pareth-n	> 60% CO ₂ within 28 days.301B	-	-	-
Amyl Salicylate	86 % (O ₂ ; OECD 301 F; 28 d; 80% (10 d))	-	-	-
Tetrahydrolinalool	(60 - 70%O ₂ ; OECD 301 F; 28 d)	-	-	-
Methylundecanal	68 % (O ₂ ; OECD 301 F; 22 d)	-	-	-

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
MEA-C10-13 Alkyl Benzenesulfonate	1.73
Tetramethyl Acetyloctahydronaphthalenes	5.7
Amyl Salicylate	4.5
Tetrahydrolinalool	4.63
Methylundecanal	4.9

Chemical name	Octanol/water partition coefficient	Bioconcentration factor (BCF)
MEA-C10-13 Alkyl Benzenesulfonate	2.51 (OECD 123)	495 L/kg
Tetramethyl Acetyloctahydronaphthalenes	5.65	-
Amyl Salicylate	4.4	380 - 570
Tetrahydrolinalool	3.3 (OECD 107)	99.87 L/kg
Methylundecanal	4.9 (OECD 117)	2917 L/kg

12.4. Mobility in soil

Mobility in soil

Chemical name	log Koc
MEA-C10-13 Alkyl Benzenesulfonate	1.167 (1.167)
Tetramethyl Acetyloctahydronaphthalenes	1.31826e+006
Amyl Salicylate	3.7 (OECD 121)
Tetrahydrolinalool	56.3 (56.3)
Methylundecanal	3981 (3981 (OECD 121))

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
C12-14 Pareth-n	The substance is not PBT / vPvB
Amyl Salicylate	The substance is not PBT / vPvB
Tetrahydroinalool	The substance is not PBT / vPvB
Methylundecanal	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV 20 01 29* - detergents containing dangerous substances
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

IATA

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

IMDG

14.1 UN number or ID number Not regulated
14.2
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

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

ADR

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

ADN

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

SECTION 15: Regulatory information

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

National regulations

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Poland

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

European Union

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

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Regulation (EC) No. 648/2004 (Detergents regulation) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

Persistent Organic Pollutants

Not applicable

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

Not applicable

EU - Plant Protection Products (1107/2009/EC)

CESIO Recommendations

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will

be made available to them, at their direct request or at the request of a detergent manufacturer.

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects
- H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Chronic aquatic toxicity	Calculation method

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

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

Disclaimer

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

End of Safety Data Sheet