



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)

Issuing Date: 15-Jul-2024

Revision date 15-Jul-2024

Revision Number 1

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

1.1. Product identifier

Product Identifier	C-21200660-001_RET_CLPR7_EUR_SAW
Product Name	Ariel Big One Colour
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 01932 896000 Fax: 01932 896200	Procter & Gamble Amiens S.A.S. ZI Nord 150 rue André Durouchez BP 90045 80082 Amiens Cedex 2 France
P&G DCE bvba/sprl-Belgium Dist. Div., Temselaan 100, B-1853 Strombeek-Bever, Belgium (IE) 1800 535 119	Procter & Gamble Uralati Ploiesti Industrial Park, Prahova County, Romania +40 344 229200

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

Classification according to
Regulation (EC) No. 1272/2008 [CLP]

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

2.2. Label elements



Signal word
Danger

Hazard statements

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
P310 - Immediately call a POISON CENTER or doctor
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes
P501 - Dispose of contents/container to an appropriate local waste system

EUH208 - Contains Tetramethyl Acetyloctahydronaphthalenes; Hexyl Salicylate; Methylundecanal; Tetrahydrolinalool; 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 (EU Index 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	20 - 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	-	Aquatic Chronic 3 (H412) Eye Dam. 1 (H318) Skin Irrit. 2	-	-	-

					(H315)			
C12-14 Pareth-n	68439-50-9	5 - 10	No data available	Polymer	Acute Tox. 4 (Oral) (H302) Aquatic Chronic 3 (H412) Eye Dam. 1 (H318)	-	-	-
C12-16 Pareth-n	68551-12-2	0 - 1	No data available	500-221-7	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) Eye Irrit. 2 (H319)	-	1	-
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 1 (H410) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	1
Methyl Decenol	81782-77-6	0 - 1	01-21199835 28-21	279-815-0	Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	-	1	-
Hexyl Salicylate	6259-76-3	0 - 1	01-21196382 75-36	228-408-6	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Sens. 1B (H317)	-	1	1
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)	-	1	1
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)	-	-	-
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)	-	1	1

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

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	No information available.
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5.3. Advice for firefighters

Special protective equipment and precautions 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.
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

Prevention of secondary hazards disposed of in a safe way, and as per local legislation.
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 eyes. Avoid contact with skin. 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

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	28.7 mg/kg bw/day	30 mg/m ³	0.648 mg/cm ²	-
Methyl Decenol	10 mg/kg bw/day	98.7 mg/m ³	25 mg/cm ²	88.16 mg/m ³
Hexyl Salicylate	6.4 mg/kg bw/day	1.7 mg/m ³	0.885 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
Tetrahydrolinalool	3.16 mg/kg bw/day	11.14 mg/m ³	0.19 mg/cm ²	-
Delta-Damascone	2.1 mg/kg bw/day	1.5 mg/m ³	0.116 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
Methyl Decenol	-	21.74 mg/m ³	12.5 mg/cm ²
Hexyl Salicylate	-	-	0.443 mg/cm ²
Methylundecanal	-	22.74 mg/m ³	17.86 mg/cm ²
Tetrahydrolinalool	-	-	0.19 mg/cm ²
Delta-Damascone	-	-	0.069 mg/cm ²

Chemical name	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic
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MEA-C10-13 Alkyl Benzenesulfonate	0.425 mg/kg bw	1.18 mg/m ³	42.5 mg/kg bw/day
Tetramethyl Acetyloctahydronaphthalenes	3 mg/kg bw	9 mg/m ³	17.2 mg/kg bw/day
Methyl Decenol	10 mg/kg bw	14.38 mg/m ³	0.089 mg/kg bw/day
Hexyl Salicylate	0.3 mg/kg bw	0.4 mg/m ³	3.2 mg/kg bw/day
Methylundecanal	5.23 mg/kg bw	9.1 mg/m ³	5.23 mg/kg bw/day
Tetrahydrolinalool	1.58 mg/kg bw	2.75 mg/m ³	1.58 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
Methyl Decenol	10 mg/kg bw/day	35.26 mg/m ³	25 mg/cm ²	88.16 mg/m ³
Hexyl Salicylate	20830 mg/kg bw/d	7.29 mg/m ³	1.475 mg/cm ²	-
Methylundecanal	100 mg/kg bw/day	352.63 mg/m ³	71.43 mg/cm ²	881.58 mg/m ³
Tetrahydrolinalool	-	-	2.760 mg/cm ²	-
Delta-Damascone	-	-	0.014 mg/cm ²	-

Chemical name	Consumer - inhalative, short-term - local	Consumer - dermal, short-term - local
Methyl Decenol	21.74 mg/m ³	12.5 mg/cm ²
Hexyl Salicylate	-	0.443 mg/cm ²
Methylundecanal	217.39 mg/m ³	35.71 mg/cm ²
Tetrahydrolinalool	-	2.760 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
Methyl Decenol	5 mg/kg bw	8.7 mg/m ³	5 mg/kg bw/day
Hexyl Salicylate	1.25 mg/kg bw/d	2.19 mg/m ³	12500 mg/kg bw/d
Methylundecanal	25 mg/kg bw	86.96 mg/m ³	50 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Chemical name	Fresh Water	Marine water	Intermittent release
MEA-C10-13 Alkyl Benzenesulfonate	0.268 mg/L	0.027 mg/L	0.022 mg/L
Tetramethyl Acetyloctahydronaphthalenes	0.025 mg/L	0.003 mg/L	-
Methyl Decenol	0.001 mg/L	0 mg/L	0.004 mg/L
Hexyl Salicylate	0 mg/L	0 mg/L	0.004 mg/L
Methylundecanal	0.66 mg/L	0 mg/L	0.002 mg/L
Tetrahydrolinalool	0.009 mg/L	0.001 mg/L	0.089 mg/L
Delta-Damascone	0.007 mg/L	0.001 mg/L	0.004 mg/L

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/L	35 mg/kg dwt	-	-
Tetramethyl Acetyloctahydronaphthalenes	3.73 mg/kg dwt	0.75 mg/kg dwt	10 mg/L	2.7 mg/kg dwt	-	-
Methyl Decenol	0.092 mg/kg dwt	0.009 mg/kg dwt	10 mg/L	0.018 mg/kg dwt	-	-
Hexyl Salicylate	0.272 mg/kg dwt	0.027 mg/kg dwt	10 mg/L	0.054 mg/kg dwt	-	-
Methylundecanal	0.265 mg/kg dwt	0.027 mg/kg dwt	10 mg/L	0.053 mg/kg dwt	-	-
Tetrahydrolinalool	0.082 mg/kg dwt	0.008 mg/kg dwt	450 mg/L	0.011 mg/kg dwt	-	-
Delta-Damascone	0.958 mg/kg dwt	0.096 mg/kg dwt	2.41 mg/L	0.187 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

Property	Values	Remarks • Method
Melting point / freezing point	No data available	Not available. This property is not relevant for the safety and classification of this product
Initial boiling point and boiling range	> 90 °C	
Flammability		Not applicable. This property is not relevant for liquid product forms
Flammability Limit in Air		Not available. This property is not relevant for the safety and classification of this product No Data Available
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	> 93 °C	Closed cup
Autoignition temperature	No data available	Not applicable. This property is not relevant for liquid product forms
Decomposition temperature	No Data Available	Not available. This property is not relevant for the safety and classification of this product
pH	7 - 8	
Dynamic viscosity	No Data Available	No Data Available
Water solubility	Soluble in water	
Solubility(ies)	No Data Available	Not available. This property is not relevant for the safety and classification of this product
Partition coefficient	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	
Relative vapor density	No data available	Not applicable. This property is not relevant for liquid product forms
Particle characteristics		Not available. This property is not relevant for the safety and classification of this product

Particle Size	No information available
Particle Size Distribution	No information available

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.
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. May cause irritation.
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.

Numerical measures of toxicity

No information available

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
MEA-C10-13 Alkyl Benzenesulfonate	1089 mg/kg (RAT)	5001 mg/kg (RABBIT)	-
C12-14 Pareth-n	>300-2000 mg/kg bw (Rat)	> 5000 mg/kg bw	-
Tetramethyl Acetyloctahydronaphthalenes	//	5001 mg/kg (Rat)	//
Hexyl Salicylate	5001 mg/kg (RAT)	5001 mg/kg (Rabbit)	-
Methylundecanal	5001 mg/kg (RAT)	8281 mg/kg (Rabbit)	-
Tetrahydrolinalool	8270 mg/kg bw	5001 mg/kg (RABBIT)	> 0.885 mg/L air
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	-	-	OECD 405	-	-	-	-	-
C12-14 Pareth-n	-	-	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	-	-	OECD 439	-	-	-
Hexyl Salicylate	-	-	Y (OECD 404)	-	-	-
Methylundecanal	-	-	Y	-	-	-
Tetrahydrolinalool	-	-	Y	-	-	-
Delta-Damascone	-	-	Y (OECD 439)	-	-	-

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

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

Skin corrosion/irritation	No information available.
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.

Acute toxicity

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; Danio rerio; 96 h)	-	7.01 mg/L (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/L (Pseudomonas putida; 5 h)	> 1 - 10 mg/L (OECD 202; Daphnia magna; static test)
Tetramethyl Acetyloctahydronaphthalenes	2.8 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	1.3 mg/L (OECD 203; Lepomis macrochirus; 96 h)	-	1.38 mg/L (OECD 202; Daphnia magna; 48 h)
Methyl Decenol	3.6 mg/L (OECD 201; 96 h)	3 mg/L (OECD 203; 96 h)	-	0.4 mg/L (OECD 202; 48 h)

	Pseudokirchneriella subcapitata; 72 h)	Pimephales promelas; 96 h)		Daphnia magna; 48 h)
Hexyl Salicylate	0.61 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	1.34 mg/L (EU Method C.1; Danio rerio; 96 h)	-	0.357 mg/L (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/L (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)	1000 mg/L (Pseudomonas putida; 0.5 h)	14.2 mg/L (OECD 202; Daphnia magna; 48 h)
Delta-Damascone	4.54 mg/L (OECD 201; Raphidocelis subcapitata; 72 h)	0.97 mg/L (OECD 203; Oryzias latipes; 96 h)	241 mg/L (OECD 209; activated sludge; 3 h)	1.18 mg/L (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	0.268 mg/L (Mesocosm model ecosystem; 56 d)	0.23 mg/L (Oncorhynchus mykiss; 72 d)	0.268 mg/L (56 d)	-	0.268 mg/L (Read across data on dodecyl linear alkylbenzene sulfonate ; guideline not indicated; mayfly, chironomid, and aquatic worm; freshwater; 56 d)
C12-14 Pareth-n	-	0.28 mg/L (Pimephales promelas; 30 d)	0.77 mg/L (Daphnia magna; 21 d)	-	-
Tetramethyl Acetyloctahydronaphthalenes	2.6 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)	0.16 mg/L (OECD 210; Danio rerio; 30 d)	0.028 mg/L (OECD 211; Daphnia magna; 21 d)	(> 100 mg/L (OECD 301 F; 42 d))	101 (OECD 301 F; activated sludge of a predominantly domestic sewage; 42 d)
Methyl Decenol	1.3 mg/L (OECD 201; Pseudokirchneriella subcapitata; 4 d)	-	0.025 mg/L (OECD 211; Daphnia magna; 21 d)	(100 mg/L (activated sludge of a predominantly domestic sewage; 28 d))	100 mg/L (activated sludge of a predominantly domestic sewage; 28 d)
Hexyl Salicylate	0.15 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)	-	0.14 mg/L (OECD 202; daphnia magna; 2 d)	-	-
Methylundecanal	0.089 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d)	0.11 mg/L (OECD 203; Oncorhynchus mykiss; 4 d)	0.033 mg/L (OECD 211; Daphnia magna; 21 d)	(100 mg/L (OECD 301F; activated sludge of a predominantly domestic sewage; 22 d))	-
Tetrahydrolinalool	9.5 mg/L (DIN 38 412, L9; Desmodesmus 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))	-
Delta-Damascone	0.38 mg/L (OECD 201; Raphidocelis subcapitata; 3 d)	0.118 mg/L (OECD 210; Pimephales promelas; 32 d)	0.35 mg/L (OECD 211; Daphnia magna; 21 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 % (OECD 301 B; CO2 evolution; 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 % (O2; OECD 301 F; 28 d)	-	-	-
C12-16 Pareth-n	60 % (OECD 301B; 28d; aerobic)	-	-	-
Tetramethyl Acetyloctahydronaphthalenes	0 % (OECD 301 C; aerobic; mixture of sewage, soil and natural water, O2 consumption; 28 d)	-	0.054	50 (OECD 314; aerobic; 1.9 d)
Methyl Decenol	73 % (O2; OECD 301 F; 28 d)	-	-	-
Hexyl Salicylate	91 % (O2; OECD 301 F; 28 d)	-	-	91% O2; OECD 301 F; 82% (10 d)
Methylundecanal	68 % (O2; OECD 301 F; 22 d)	-	-	-
Tetrahydrolinalool	65 % (OECD 301 F; O2; 28 d; 10-day window criteria fulfilled; 28 d)	-	1.125	-
Delta-Damascone	16 % (O2; OECD 301; 28 d)	332 d (OECD 111)	-	0% O2; 28 d; OECD 301 C

12.3. Bioaccumulative potential**Bioaccumulation****Component Information**

Chemical name	Partition coefficient
MEA-C10-13 Alkyl Benzenesulfonate	1.73
Tetramethyl Acetyloctahydronaphthalenes	5.7
Methyl Decenol	3.9
Hexyl Salicylate	5.5
Methylundecanal	4.9
Tetrahydrolinalool	3.3

Chemical name	Octanol/water partition coefficient	Bioconcentration factor (BCF)
MEA-C10-13 Alkyl Benzenesulfonate	2.51 (OECD 123)	495 L/kg
C12-14 Pareth-n	5.24 (OECD 123)	-
Tetramethyl Acetyloctahydronaphthalenes	5.6 (OECD 117)	-
Methyl Decenol	3.9 (OECD 117)	123 - 387 L/kg
Hexyl Salicylate	5.5 (OECD 117)	8913 L/kg
Methylundecanal	4.9 (OECD 117)	2917 L/kg
Tetrahydrolinalool	3.3 (OECD 107)	99.87 L/kg
Delta-Damascone	4.2	-

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

Chemical name	log Koc
MEA-C10-13 Alkyl Benzenesulfonate	3.5
C12-14 Pareth-n	267.1
Tetramethyl Acetyloctahydronaphthalenes	4.12
Methyl Decenol	1175 (1175 (OECD 121))
Hexyl Salicylate	2981 (2981)
Methylundecanal	3981 (3981 (OECD 121))
Tetrahydrolinalool	56.3 (56.3)
Delta-Damascone	1259 (1259 (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
Methyl Decenol	The substance is not PBT / vPvB
Hexyl Salicylate	The substance is not PBT / vPvB

Methylundecanal	The substance is not PBT / vPvB
Tetrahydrolinalool	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. Dispose of in accordance with local regulations. Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures described in section 7.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC 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 UN proper shipping name Not regulated
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 UN proper shipping name Not regulated
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 UN proper shipping name Not regulated
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 UN proper shipping name	Not regulated
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 UN proper shipping name	Not regulated
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

France

Occupational Illnesses (R-463-3, France)

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)
TA Luft (German Air Pollution Control Regulation)

Netherlands

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 contains one or more substance(s) 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

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

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

Issuing Date: 15-Jul-2024

Revision date 15-Jul-2024

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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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