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 07-Nov-2023 Revision date 07-Nov-2023 Revision Number 1

Date:

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

1.1. Product identifier

Product Identifier C-21019689-003_A_RET_CLPR7_EUR_SAW

Product Name Ariel 3in1 Original

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

<u>Supplier</u> <u>Manufacturer</u>

Procter & Gamble UK Brooklands, P&G Amiens, Zone Industrielle, Rue Andre, Durouchez, BP 1336, 80013, Amiens,

Weybridge, Surrey, KT13 0XP, UK Tel: France

01932 896000 Fax: 01932 896200 Tel: 33-3-22-543200 Fax: 33-3-22-435466 Procter & Gamble Urlati

Ploiesti Industrial Park,

P&G DCE bvba/sprl-Belgium Dist. Div., Prahova County,

Temselaan 100, B-1853 Strombeek-Bever, Romania +40 344 229200

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

Classification according to

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

110941411011 (20) 110: 127272000 [021]	
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)

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P310 - Immediately call a POISON CENTER or doctor/physician

P102 - Keep out of reach of children

P305 - IF IN EYES:

P351 - Rinse cautiously with water for several minutes

P280 - Wear eye protection

P302 + P352 - IF ON SKIN: Wash with plenty of water

P501 - Dispose of contents/container to an appropriate local waste system

EUH208 - Contains Tetrahydrolinalool, Methylundecanal, Tetramethyl Acetyloctahydronaphthalenes, Citronellol, Delta-Damascone, Isoeugenol 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)	Regulation (EC) No. 1272/2008	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	[CLP] 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	1 - 5	No data	Polymer	Acute Tox. 4	_	_	_
O12 141 dictirii	00-00 00 0	1 0	available	1 Olymor	(Oral) (H302)			
					Aquatic			
					Chronic 3			
					(H412)			
					Eye Dam. 1			
C12-16 Pareth-n	68551-12-2	0 - 1	No data	500-221-7	(H318) Aquatic Acute	_	_	_
O12-101 aletii-ii	00001-12-2	0 - 1	available	300-221-7	1 (H400)	_		_
					Aquatic			
					Chronic 3			
					(H412)			
					Eye Irrit. 2			
Methylundecanal	110-41-8	0 - 1	01-21199694	203-765-0	(H319) Aquatic Acute			
ivietriyiuridecariai	1110-41-0	0 - 1	43-29	203-765-0	1 (H400)	-	_	-
			10 20		Aquatic			
					Chronic 1			
					(H410)			
					Skin Irrit. 2			
					(H315) Skin Sens.			
					1B (H317)			
Tetrahydrolinalool	78-69-3	0 - 1	01-21194547	201-133-9	Eye Irrit. 2	-	-	-
			88-21		(H319) Skin Irrit. 2			
					(H315)			
					Skin Sens.			
					1B (H317)			
Tetramethyl	54464-57-2	0 - 1	01-21194899		Aquatic	-	-	-
Acetyloctahydronap			89-04	259-175-9	Chronic 1			
hthalenes				268-978-3 268-979-9	(H410) Skin Irrit. 2			
				915-730-3	(H315)			
				0.0.00	Skin Sens.			
					1B (H317)			
Citronellol	106-22-9	0 - 1	01-21194539	203-375-0	Eye Irrit. 2	-	-	-
			95-23		(H319)			
					Skin Irrit. 2 (H315)			
					Skin Sens.			
					1B (H317)			
Oxacyclohexadecen	111879-80-2	0 - 1	01-00000168	422-320-3	Aquatic Acute	-	-	-
one			83-62		1 (H400)			
					Aquatic Chronic 1			
					(H410)			
Cis-3-Hexenyl	65405-77-8	0 - 1	01-21199873	265-745-8	Aquatic Acute	-	_	_
Salicylate		- •	20-37		1 (H400)			
					Aquatic			
					Chronic 2			
Delta Darress	E7070 00 4	0 1	04.04405054	200 700 0	(H411)			
Delta-Damascone	57378-68-4	0 - 1	01-21195351 22-53	260-709-8 275-156-8	Acute Tox. 4 (Oral) (H302)	-	-	-
			22-00	210-100-0	Aquatic Acute			
					1 (H400)			
-			•		. , ,		•	

					Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315) Skin Sens. 1A (H317)			
Isoeugenol	97-54-1	0 - 1	01-21202236 82-61	202-590-7 227-678-2	Acute Tox. 4 (Dermal) (H312) Acute Tox. 4 (Inhalation:d ust,mist) (H332) Acute Tox. 4 (Oral) (H302) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1A (H317) STOT SE 3 (H335)	1A :: 0.01%<=C<1 00%	_	-

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

This product does not contain candidate substances of very high concern at a concentration >=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

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

(Call a physician if symptoms occur).

Eve 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. 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:. 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.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

SECTION 5: Firefighting measures

5.1. Extinguishing media

Skin contact

Suitable Extinguishing Media Dry chemical. Alcohol resistant foam. Carbon dioxide (CO2). Do not scatter spilled material with high pressure water streams. Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

None in particular.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautionsAvoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation.

6.2. Environmental precautions

Environmental precautionsSee Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containmentScoop 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

Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Isoeugenol	-	-	skin sensitizer	-	-

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 - derm

Chemical name	Worker - dermal, Worker - inhalative,		Worker - dermal,	Worker - inhalative,
	long-term - systemic	long-term - systemic	long-term - local	long-term - local
MEA-C10-13 Alkyl	119 mg/kg bw/day	6.71 mg/m ³	-	12 mg/m³
Benzenesulfonate				
Methylundecanal	10.46 mg/kg bw/day	36.89 mg/m ³	35.7 mg/cm2	92.21 mg/m ³
Tetrahydrolinalool	3.16 mg/kg bw/day	11.14 mg/m ³	0.19 mg/cm2	-
Tetramethyl	28.7 mg/kg bw/day	30 mg/m ³	0.648 mg/cm2	-
Acetyloctahydronaphthalenes				
Citronellol	327.4 mg/kg bw/day	161.6 mg/m ³	-	10 mg/m ³
Delta-Damascone	2.1 mg/kg bw/day	1.5 mg/m ³	0.116 mg/cm2	-

Chemical name	Consumer - oral, long-term -	Consumer - inhalative,	Consumer - dermal, long-term
	local	long-term - local	- local
MEA-C10-13 Alkyl Benzenesulfonate	-	3 mg/m³	-
Methylundecanal	-	22.74 mg/m ³	17.86 mg/cm2
Tetrahydrolinalool	-	ı	0.19 mg/cm2
Tetramethyl	-	-	0.38 mg/cm2
Acetyloctahydronaphthalenes			
Citronellol	-	10 mg/m ³	-
Delta-Damascone	-	-	0.069 mg/cm2

Chemical name	Consumer - oral, long-term -	Consumer - inhalative,	Consumer - dermal, long-term
	systemic	long-term - systemic	- systemic
MEA-C10-13 Alkyl Benzenesulfonate	0.425 mg/kg bw	1.18 mg/m ³	42.5 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
Tetramethyl	3 mg/kg bw	9 mg/m³	17.2 mg/kg bw/day
Acetyloctahydronaphthalenes			
Citronellol	13.8 mg/kg bw	47.8 mg/m ³	196.4 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.

Beilied No Elicot Ectel (BITE	, Chore tollin			
Chemical name	Worker - dermal,	Worker - inhalative,	Worker - dermal,	Worker - inhalative,
	short-term - systemic	short-term - systemic	short-term - local	short-term - local
Methylundecanal	100 mg/kg bw/day	352.63 mg/m ³	71.43 mg/cm2	881.58 mg/m ³
Tetrahydrolinalool	-	-	2.760 mg/cm ²	-
Citronellol	-	-	2.95 mg/cm2	10 mg/m ³
Delta-Damascone	-	-	0.014 mg/cm ²	-

Chemical name	Consumer - inhalative, short-term - loc	Consumer - dermal, short-term - local
Methylundecanal	217.39 mg/m ³	35.71 mg/cm2
Tetrahydrolinalool	-	2.760 mg/cm ²
Citronellol	10 mg/m ³	2.95 mg/cm2
Delta-Damascone	-	0.009 mg/cm2

Chemical name	Consumer - oral, short-term -	Consumer - inhalative,	Consumer - dermal,	
	systemic	short-term - systemic	short-term - systemic	
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
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
Tetramethyl	0.025 mg/L	0.003 mg/L	-

Acetyloctahydronaphthalenes			
Citronellol	0.002 mg/L	0 mg/L	0.024 mg/L
Delta-Damascone	0.007 mg/L	0.001 mg/L	0.004 mg/L

Chemical name	Freshwater	Marine sediment	Sewage	Soil	Air	Oral
	sediment		treatment plant			
MEA-C10-13 Alkyl Benzenesulfonate	8.1 mg/kg dwt	0.81 mg/kg dwt	3.43 mg/L	35 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	-	-
Tetramethyl Acetyloctahydronaphthalen es		0.75 mg/kg dwt	10 mg/L	2.7 mg/kg dwt	-	-
Citronellol	0.026 mg/kg dwt	0.003 mg/kg dwt	580 mg/L	0.004 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 protectionNo special protective equipment required.

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 stateLiquidAppearanceLiquidColorColoured

Odor Pleasant (perfume)
Odor threshold Not applicable

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point No data available Not available. This property is not relevant for the

safety and classification of this product

safety and classification of this product

product forms

Not applicable. This property is not relevant for liquid

Not available. This property is not relevant for the

Initial boiling point and boiling range> 90 °C

Flammability

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 93 °C Closed cup

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

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

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

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safety and classification of this product

Not available. This property is not relevant for the

safety and classification of this product

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 materialsNone 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

No information available

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
MEA-C10-13 Alkyl	1089 mg/kg (RAT)	5001 mg/kg (RABBIT)	-
Benzenesulfonate			
C12-14 Pareth-n	>300-2000 mg/kg bw (Rat)	> 5000 mg/kg bw	-
Methylundecanal	5001 mg/kg (RAT)	8281 mg/kg (RABBIT)	-
Tetrahydrolinalool	8270 mg/kg bw	5001 mg/kg (RABBIT)	> 0.885 mg/L air
Tetramethyl	//	5001 mg/kg (RAT)	//
Acetyloctahydronaphthalenes			
Citronellol	3450 mg/kg bodyweight (rat)	2650 mg/kg bodyweight (rabbit)	-
Cis-3-Hexenyl Salicylate	= 5 g/kg (Rat)	5001 mg/kg (RABBIT)	-
Delta-Damascone	1400 mg/kg (RAT)	5001 mg/kg (RABBIT)	-
Isoeugenol	= 1560 mg/kg (Rat)	1900 mg/kg (RAT)	-

Chemical name	Carcinogenic	Species	Eye Damage	Species	Development	Species	Mutagenicity	Species
	ity				al toxicity			
MEA-C10-13 Alkyl	-	-	OECD 405	-	-	-	-	-
Benzenesulfonate								
C12-14 Pareth-n	-	1	OECD 405	-	-	-	-	-
Tetrahydrolinalool	-	-	Υ	-	-	-	-	-
Citronellol	-	-	Y (OECD 405)	-	-	-	-	-

Chemical name	Reproductive	Species	Skin	Species	Sensitization	Species
	toxicity		corrosion/irritatio			
			n			
MEA-C10-13 Alkyl	-	-	Y (100%; OECD	-	-	-
Benzenesulfonate			404)			

	Reproductive toxicity		Skin corrosion/irritatio n		Sensitization	Species
Tetrahydrolinalool	-	-	Υ	-	-	-
Methylundecanal	_	-	Υ	-	-	-
Tetramethyl Acetyloctahydronaphthalen es	-	-	OECD 439	-	-	-
Citronellol	-	-	Y (OECD 404)	-	-	-
Delta-Damascone	-	-	Y (OECD 439)	-	-	-

	Skin sensitizatio n			Target Organs			Target Organs	Species	Aspiration hazard
Tetrahydrolinalool	Y (OECD 429)	-	-	-	-	-	-	-	-
Methylundecanal	Y (OECD 429)	-	-	-	-	-	_	-	-
Tetramethyl Acetyloctahydronaph thalenes	OECD 429	-	-	-	-	-	-	-	-
Citronellol	Y (OECD 429)	-	-	-	-	-	-	-	-
Delta-Damascone	N (OECD 429)	-	-	-	-	-	-	-	-
Isoeugenol	-	-	-	-	-	-	nasal cavity	-	-

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; 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)
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)
Tetramethyl Acetyloctahydronaphthal enes	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)
Citronellol	2.4 mg/L (72 h)	14.66 mg/L (Leuciscus idus; 96 h)	10001 mg/L (Pseudomonas putida; 0.5 h)	17.48 mg/L (EU Directive 79/831/EEC, Annex V, part C.; Daphnia magna; 48 h)
Cis-3-Hexenyl Salicylate	0.61 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	0.66 mg/L (OECD 203; Oncorhynchus mykiss; 96 h)	-	0.6 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

Sili Silis Toxisity	_		1		1
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)	-	-

Methylundecanal		0.11 mg/L (OECD 203; Oncorhynchus mykiss; 4 d)		(100 mg/L (OECD 301F; activated sludge of a predominantly domestic sewage; 22	-
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))	-
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)
Citronellol	1.1 mg/L (Scenedesmus subspicatus; 3 d)	4.6 mg/L (Leuciscus idus; 4 d)	3.1 mg/L (Daphnia magna; 2 d)	(580 mg/L (DIN 38412, Part 27; Pseudomonas putida; 0.02083 d))	
Cis-3-Hexenyl Salicylate	0.15 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)	0.65 mg/L (OECD 203; Oncorhynchus mykiss; 4 d)	0.33 mg/L (OECD 202; Daphnia magna; 2 d)	-	-
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

Persistence and degradabili	ty			
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-undecylbenzenesulfonat e; 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)	-	-	-
Tetrahydrolinalool	65 % (OECD 301 F; O2; 28 d; 10-day window criteria fulfilled; 28 d)	-	1.125	-
Methylundecanal	68 % (O2; OECD 301 F; 22 d)	-	-	-
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)
Citronellol	85 % (O2 consumption; 28 d)	-	0.16	-
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

Component information		
Chemical name	Partition coefficient	
MEA-C10-13 Alkyl Benzenesulfonate	1.73	
Methylundecanal	4.9	
Tetrahydrolinalool	3.3	
Tetramethyl Acetyloctahydronaphthalenes	5.7	
Citronellol	3.41	
Cis-3-Hexenyl Salicylate	4.8	

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)	-
Tetrahydrolinalool	3.3 (OECD 107)	99.87 L/kg
Methylundecanal	4.9 (OECD 117)	2917 L/kg
Tetramethyl Acetyloctahydronaphthalenes	5.6 (OECD 117)	•
Citronellol	3.41	82.59 L/kg

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
Tetrahydrolinalool	56.3 (56.3)
Methylundecanal	3981 (3981 (OECD 121))
Tetramethyl Acetyloctahydronaphthalenes	4.12
Citronellol	70.79 (70.79)
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
Methylundecanal	The substance is not PBT / vPvB
Tetrahydrolinalool	The substance is not PBT / vPvB
Citronellol	The substance is not PBT / vPvB
Cis-3-Hexenyl Salicylate	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

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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

20 01 29* - detergents containing dangerous substances

according to EWC

15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

IATA

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
Not regulated
Not regulated
Not regulated
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
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated Not regulated Not applicable

14.6 Special precautions for user

14.7 Maritime transport in bulk No information available

according to IMO instruments

RID

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards

Not regulated
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special precautions for user

Special Provisions None

ADN

14.1 UN number or ID number14.2 UN proper shipping nameNot regulated

14.3 Transport hazard class(es) No information available

14.4 Packing group Not relevant14.5 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)

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)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV

Isoeugenol	75	-

Persistent Organic Pollutants

Not applicable

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

Not applicable

CESIO RecommendationsThe 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

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

H332 - Harmful if inhaled

H335 - May cause respiratory 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
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 \vee

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