

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 02-Dec-2024 Date: Revision date 02-Dec-2024

Revision Number 1

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

<u>1.1. Product identifier</u> Product Identifier Product Name Product Form Pure substance/mixture	C-21131085-001_RET_CLPR7_EUR_SAW ARIEL ORIGINAL BIOLOGICAL LAUNDRY DETERGENT Mixture Mixture
	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	
Use category	PC35 - Washing and cleaning products (including solvent based products)
1.3. Details of the supplier of the s	afety data sheet
Supplier	Manufacturer Manufacturer
Procter & Gamble UK Brooklands,	Procter & Gamble Amiens S.A.S.
Weybridge, Surrey, KT13 0XP, UK	Tel: ZI Nord
01932 896000 Fax: 01932 896200	150 rue André Durouchez
	BP 90045
P&G DCE bvba/sprl-Belgium Dist. Di	v., 80082 Amiens Cedex 2
Temselaan 100, B-1853 Strombeek-l	Bever, France
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

(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

For consumer use in households, follow precautionary and first aid instructions on product label

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation	Category 2 - (H319)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements



Hazard statements

H319 - Causes serious eye irritation H412 - Harmful to aquatic life with long lasting effects

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

P102 - Keep out of reach of children P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell 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 Citronellol; Geraniol; Tetramethyl Acetyloctahydronaphthalenes; Benzyl Salicylate; Methylundecanal; Benzisothiazolinone; 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)
Sodium C10-13 Alkyl Benzenesulfonate	68411-30-3	10 - 20	01-21194894 28-22	270-115-0	Acute Tox. 4 (Oral) (H302) Aquatic Chronic 3 (H412) Eye Dam. 1 (H318) Skin Irrit. 2 (H315)		-	-
C15 Pareth-n	34398-05-5	5 - 10	No data available	-	Acute Tox. 4 (Oral) (H302) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) Eye Dam. 1		1	-

	1	1	1		(H318)	[
Sodium Laureth	68891-38-3	1 - 5	No data	500-223-8	Aquatic			_
Sulfate	00031-30-3	1-5	available	500-225-0	Chronic 3	_	-	-
Cunato			available	000 201 0	(H412)			
					Eye Dam. 1			
					(H318)			
					Skin Irrit. 2			
					(H315)			
Sodium	15763-76-5	1 - 5	01-21194894	239-854-6	Eye Irrit. 2	-	-	-
Cumenesulfonate		_	11-37		(H319)			
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)			
Geraniol	106-24-1	0 - 1	01-21195524	203-377-1	Eye Dam. 1	-	-	-
			30-49		(H318)			
					Skin Irrit. 2			
					(H315)			
					Skin Sens. 1			
					(H317)			
Methylundecanal	110-41-8	0 - 1	01-21199694	203-765-0	Aquatic Acute	-	1	1
			43-29		1 (H400)			
					Aquatic			
					Chronic 1			
					(H410)			
					Skin Irrit. 2			
					(H315)			
					Skin Sens.			
					1B (H317)			
	54464-57-2	0 - 1	01-21194899	259-174-3	Aquatic	-	-	1
Acetyloctahydronap			89-04	259-175-9	Chronic 1			
hthalenes				268-978-3	(H410)			
				268-979-9	Skin Irrit. 2			
				915-730-3	(H315)			
					Skin Sens.			
					1B (H317)			
Benzyl Salicylate	118-58-1	0 - 1	01-21199694	204-262-9	Aquatic	-	-	-
			42-31		Chronic 3			
					(H412)			
					Skin Sens.			
D			04.04007045		1B (H317)			
Benzisothiazolinone	2634-33-5	0 - 1	01-21207615	220-120-9		Skin Sens. 1	1	1
			40-60		inhalation	::		
						0.036%<=C<		
					Acute Tox. 4	100%		
					(Oral) (H302)			
					Aquatic Acute			
					1 (H400)			
					Aquatic			
					Chronic 1			
					(H410)			
					Eye Dam. 1			
					(H318) Skip Irrit 2			
					Skin Irrit. 2 (H315)			
					Skin Sens. 1			
					(H317)			
Delta-Damascone	57378-69 1	0 - 1	01-21195351	260-709-8	Acute Tox. 4		1	1
Della-Damascone	5/3/0-00-4	0-1	01-21190001	200-709-0		-		1

	22-53	275-156-8	(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

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	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. Remove and isolate contaminated clothing and shoes. Get medical attention if symptoms occur.
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 an	d effects, both acute and delayed
Symptoms	Coughing and/ or wheezing. Redness. Swelling of tissue. Itching. Sneezing. Dryness. Pain. Blurred vision. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

4.3. Indication of any immediate medical attention and special treatment neededNote to physiciansTreat symptomatically.

diarrhea. Excessive secretion.

SECTION 5: Firefighting measures

<u>5.1. Extinguishing media</u> Suitable Extinguishing Media Unsuitable extinguishing media	Dry chemical. Alcohol resistant foam. Carbon dioxide (CO2). Do not scatter spilled material with high pressure water streams.
5.2. Special hazards arising from the Specific hazards arising from the chemical	<u>e substance or mixture</u> 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 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 See Section 12 for additional Ecological Information. 6.3. Methods and material for containment and cleaning up Scoop absorbed substance into closing containers. Methods for containment Scoop absorbed substance into closing containers. Methods for cleaning up Take up with sand or other noncombustible absorbent material and place into containers 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 Secondary hazards

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Reference to other sections See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling Advice on safe handling	Avoid contact with eyes. Use personal protection equipment. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.
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, in Storage Conditions	cluding any incompatibilities Keep/store only in original container. Keep tightly closed in a dry and cool place.
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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
Geraniol	-	-	skin sensitizer	-	-
Benzisothiazolinone	-	-	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 - dermal, long-term - systemic	Worker - inhalative, long-term - systemic	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
Sodium C10-13 Alkyl Benzenesulfonate	119 mg/kg bw/day	7.6 mg/m ³	-	6 mg/m ³
Sodium Cumenesulfonate	191 mg/kg bw/day	37.4 mg/m ³	0.096 mg/cm2	-
Citronellol	327.4 mg/kg bw/day	161.6 mg/m ³	-	10 mg/m ³
Geraniol	4.2 mg/kg bw/day	11.8 mg/m ³	11.8 mg/cm2	-
Methylundecanal	10.46 mg/kg bw/day	36.89 mg/m ³	35.7 mg/cm2	92.21 mg/m ³
Benzyl Salicylate	2.21 mg/kg bw/day	7.8 mg/m ³	-	-
Tetramethyl Acetyloctahydronaphthalenes	28.7 mg/kg bw/day	30 mg/m ³	0.648 mg/cm2	-
Benzisothiazolinone	0.966 mg/kg bw/day	6.81 mg/m ³	-	-

Delta-Damascone	2.1 mg/kg bw/day	1.5 mg	ng/m ³ 0.116 mg/cm2		12	-	
					_		
Chemical name	Consumer - oral	Consumer - oral, long-term - Cor		Consumer - inhalative,		Consumer - dermal, long-term	
	local		long-	term - local		- local	
Sodium C10-13 Alkyl	Sodium C10-13 Alkyl -		1.	5 mg/m³		-	
Benzenesulfonate				-			
Sodium Cumenesulfonate -			-		0.048 mg/cm2		
Citronellol -			10 mg/m ³		-		
Geraniol	-			-		1.18 mg/cm2	
Methylundecanal	-		22.74 mg/m ³		17.86 mg/cm2		
Tetramethyl	-			-		0.38 mg/cm2	
Acetyloctahydronaphthalenes						-	
Delta-Damascone	-		- 0.069 mg/		0.069 mg/cm2		

Chemical name	Consumer - oral, long-term -	Consumer - inhalative,	Consumer - dermal, long-term	
	systemic	long-term - systemic	- systemic	
Sodium C10-13 Alkyl	0.425 mg/kg bw	1.3 mg/m ³	42.5 mg/kg bw/day	
Benzenesulfonate		-		
Sodium Cumenesulfonate	3.8 mg/kg bw	6.6 mg/m ³	68.1 mg/kg bw/day	
Citronellol	13.8 mg/kg bw	47.8 mg/m ³	196.4 mg/kg bw/day	
Geraniol	2 mg/kg bw	3.5 mg/m ³	2.5 mg/kg bw/day	
Methylundecanal	5.23 mg/kg bw	9.1 mg/m ³	5.23 mg/kg bw/day	
Benzyl Salicylate	0.79 mg/kg bw	1.37 mg/m ³	0.79 mg/kg bw/day	
Tetramethyl	3 mg/kg bw	9 mg/m³	17.2 mg/kg bw/day	
Acetyloctahydronaphthalenes				
Benzisothiazolinone	-	1.2 mg/m ³	0.345 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,	Worker - inhalative,	Worker - dermal,	Worker - inhalative,
	short-term - systemic	short-term - systemic	short-term - local	short-term - local
Citronellol	-	-	2.95 mg/cm2	10 mg/m ³
Methylundecanal	100 mg/kg bw/day	352.63 mg/m ³	71.43 mg/cm2	881.58 mg/m ³
Delta-Damascone	-	-	0.014 mg/cm ²	-

Chemical name	Consumer - inhalative, short-term - local	Consumer - dermal, short-term - local
Citronellol	10 mg/m ³	2.95 mg/cm2
Methylundecanal	217.39 mg/m ³	35.71 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
Sodium C10-13 Alkyl	0.268 mg/L	0.027 mg/L	0.017 mg/L
Benzenesulfonate			
Sodium Cumenesulfonate	0.1 mg/L	0.01 mg/L	1 mg/L
Citronellol	0.002 mg/L	0 mg/L	0.024 mg/L
Geraniol	0.011 mg/L	0.001 mg/L	0.108 mg/L
Methylundecanal	0.66 mg/L	0 mg/L	0.002 mg/L
Benzyl Salicylate	0.001 mg/L	0 mg/L	0.01 mg/L
Tetramethyl	0.025 mg/L	0.003 mg/L	-
Acetyloctahydronaphthalenes		_	
Benzisothiazolinone	0.004 mg/L	0 mg/L	0.001 mg/L

Delta-Damascone		0.007 mg/L		0.001 mg/L			0.004 mg/L	
Chemical name	Freshwater	Marine sediment			Soil	Ai	r	Oral
	sediment		treatmen	it plant				
Sodium C10-13 Alkyl	8.1 mg/kg dwt	6.8 mg/kg dwt	3.43 m	ng/L	35 mg/kg dwt	-		-
Benzenesulfonate				-				
Sodium Cumenesulfonate	0.372 mg/kg dwt	0.037 mg/kg dwt	100 m	ng/L	0.016 mg/kg dwt	-		-
Citronellol	0.026 mg/kg dwt	0.003 mg/kg dwt	580 m	ng/L	0.004 mg/kg dwt	-		-
Geraniol	0.115 mg/kg dwt	0.011 mg/kg dwt	0.7 m	g/L	0.017 mg/kg dwt	-		-
Methylundecanal	0.265 mg/kg dwt	0.027 mg/kg dwt	10 m	g/L	0.053 mg/kg dwt	-		-
Benzyl Salicylate	0.583 mg/kg dwt	0.058 mg/kg dwt	10 m	g/L	1.41 mg/kg dwt	-		-
Tetramethyl		0.75 mg/kg dwt	10 m	g/L	2.7 mg/kg dwt	-		-
Acetyloctahydronaphthalen				•				
es								
Benzisothiazolinone	0.05 mg/kg dwt	0.005 mg/kg dwt	1.03 m	ng/L	3 mg/kg dwt	-		-
Delta-Damascone	0.958 mg/kg dwt	0.096 mg/kg dwt	2.41 m	ng/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	No special protective equipment required.
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 Appearance Color Odor	Liquid Liquid Coloured Pleasant (perfume)	
Odor threshold Property	Not applicable	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 rang Flammability	e > 95 ℃	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
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits		
Flash point	No Flash to Boiling (NFTB)	

Autoignition temperature	No data available	Not available. This property is not relevant for the safety and classification of this product
Decomposition temperature	No Data Available	Not available. This property is not relevant for the safety and classification of this product
рH	7 - 9	, ,
Dynamic viscosity	100 - 1000 mPas	
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 - 1.1	
Relative vapor density	No data available	Not available. This property is not relevant for the safety and classification of this product
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

<u>10.1. Reactivity</u> Reactivity	No information available.
<u>10.2. Chemical stability</u> Stability Explosion data	Stable under normal conditions.
Sensitivity to mechanical impac	t None.
Sensitivity to static discharge	None.
10.3. Possibility of hazardous reacti Possibility of hazardous reactions	
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 irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and 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 phy	vsical, chemical and toxicological characteristics

Symptoms

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
Sodium C10-13 Alkyl	1080 mg/kg (RAT)	5001 mg/kg (RAT)	-
Benzenesulfonate			
Sodium Laureth Sulfate	5001 mg/kg (RAT)	5001 mg/kg (RAT)	-
Sodium Cumenesulfonate	6721 mg/kg (RAT)	5001 mg/kg (RABBIT)	21 mg/L (RAT)
Citronellol	3450 mg/kg bodyweight (rat)	2650 mg/kg bodyweight (rabbit)	-
Geraniol	3600 mg/kg (RAT)	5001 mg/kg (Rabbit)	-
Methylundecanal	5001 mg/kg (RAT)	8281 mg/kg (Rabbit)	-
Tetramethyl	//	5001 mg/kg (Rat)	//
Acetyloctahydronaphthalenes			
Benzyl Salicylate	3031 mg/kg (RAT)	5001 mg/kg (Rabbit)	-
Benzisothiazolinone	490 mg/kg (RAT)	5001 mg/kg (Rat)	-
Delta-Damascone	1400 mg/kg (RAT)	5001 mg/kg (RABBIT)	-

Chemical name	Carcinogenic ity	Species	Eye Damage		Development al toxicity	Species	Mutagenicity	Species
Sodium C10-13 Alkyl Benzenesulfonate	-	-	Y (OECD 405)	-	-	-	-	-
Sodium Laureth Sulfate	-	-	Y (OECD 405)	-	-	-	-	-
Sodium Cumenesulfonate	-	-	Y (OECD 405)	-	-	-	-	-
Citronellol	-	-	Y (OECD 405)	-	-	-	-	-
Geraniol	-	-	Y (OECD 405)	-	-	-	-	-
Benzyl Salicylate	-	-	Y (100%)	-	-	-	-	-
Benzisothiazolinone	-		Y (EPA OPP 81-4)	-	-	-	-	-

Reproductive toxicity	 Skin corrosion/irritatio	 Sensitization	Species
	n		

Chemical name	Reproductive toxicity	Species	Skin corrosion/irritatio	Species	Sensitization	Species
			n			
Sodium C10-13 Alkyl Benzenesulfonate	-	-	Y (OECD 404)	-	-	-
Sodium Laureth Sulfate	-	-	Y (OECD 404)	-	-	-
Sodium Cumenesulfonate	-	-	Y (OECD 404)	-	-	-
Citronellol	-	-	Y (OECD 404)	-	-	-
Geraniol	-	-	Y (OECD 404)	-	-	-
Methylundecanal	-	-	Y	-	-	-
Tetramethyl Acetyloctahydronaphthalen es	-	-	OECD 439	-	-	-
Delta-Damascone	-	-	Y (OECD 439)	-	-	-

Chemical name	Skin sensitizatio n	Species	STOT - single exposure	Target Organs	Species	STOT - repeated exposure	Target Organs	Species	Aspiration hazard
Sodium Laureth Sulfate	N (OECD 406)	-	-	-	-	-	-	-	-
Citronellol	Y (OECD 429)	-	-	-	-	-	-	-	-
Geraniol	Y (//OECD 429)	-	-	-	-	-	-	-	-
Methylundecanal	Y (OECD 429)	-	-	-	-	-	-	-	-
Benzyl Salicylate	Y (OECD 429)	-	-	-	-	-	-	-	-
Tetramethyl Acetyloctahydronaph thalenes	OECD 429	-	-	-	-	-	-	-	-
Benzisothiazolinone	Y (OECD 406)	-	-	-	-	-	-	-	-
Delta-Damascone	N (OECD 429)	-	-	-	-	-	-	-	-

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

Skin corrosion/irritation	Not applicable.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not applicable.
Germ cell mutagenicity	None known.
Carcinogenicity	None known.
Reproductive toxicity	None known.
STOT - single exposure	None known.

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

Acute toxicity				
Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium C10-13 Alkyl	235 mg/L (Raphidocelis	1.67 mg/L (Lepomis	-	2.9 mg/L (OECD 202;
Benzenesulfonate	subcapitata; 72 h)	macrochirus; 96 h)		Daphnia magna; 48 h)
Sodium Laureth Sulfate	-	5 mg/L (OECD 203;	-	5 mg/L (OECD 202;
		Brachydanio rerio		Daphnia magna (Water
		(zebrafish); 96 h)		flea); 48 h)
Sodium Cumenesulfonate	252 mg/L (OECD 201;	253 mg/L (OECD 203;	1000 mg/L (OECD 209;	305 mg/L (OECD 202;
	Raphidocelis subcapitata;	Danio rerio; 96 h)	activated sludge of a	Daphnia magna; 48 h)
	72 h)		predominantly domestic	-
			sewage; 3 h)	
Citronellol	2.4 mg/L (72 h)	14.66 mg/L (Leuciscus	10001 mg/L	17.48 mg/L (EU Directive
		idus; 96 h)	(Pseudomonas putida; 0.5	
			h)	part C.; Daphnia magna;
				48 h)
Geraniol	13.1 mg/L (OECD 201;	22 mg/L (OECD 203;	70 mg/L (OECD 209;	10.8 mg/L (OECD 202;
	Desmodesmus	Danio rerio; 96 h)	activated sludge,	Daphnia magna; 48 h)
	subspicatus; 72 h)		domestic; 0.5 h)	
Methylundecanal	0.18 mg/L (OECD 201;	0.35 mg/L (OECD 203;	-	0.21 mg/L (OECD 202;
	Pseudokirchneriella	Oncorhynchus mykiss; 96		Daphnia magna; 48 h)
	subcapitata; 72 h)	h)		
Tetramethyl	2.8 mg/L (OECD 201;	1.3 mg/L (OECD 203;	-	1.38 mg/L (OECD 202;
Acetyloctahydronaphthal	Desmodesmus	Lepomis macrochirus; 96		Daphnia magna; 48 h)
enes	subspicatus; 72 h)	h)		
Benzyl Salicylate	1.29 mg/L (OECD 201;	1.03 mg/L (EU Method	-	1.16 mg/L (OECD 202;
	Raphidocelis subcapitata;	C.1; danio rerio; 96 h)		Daphnia magna; 48 h)
	72 h)			
Benzisothiazolinone	0.11 mg/L (OECD 201;	2.15 mg/L (OECD 203;	12.8 mg/L (OECD 209;	2.9 mg/L (OECD 202;
	Pseudokirchneriella	Oncorhynchus mykiss; 96	activated sludge; 3 h)	Daphnia magna; 48 h)
	subcapitata; 72 h)	h)		
Delta-Damascone	4.54 mg/L (OECD 201;	0.97 mg/L (OECD 203;	241 mg/L (OECD 209;	1.18 mg/L (OECD 211;
	Raphidocelis subcapitata;	Oryzias latipes; 96 h)	activated sludge; 3 h)	Daphnia magna; 21 d)
	72 h)			

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
Sodium C10-13 Alkyl Benzenesulfonate	0.5 mg/L (Raphidocelis subcapitata; 4 d)	Oncorhynchus mykiss; 72 d)	Daphnia magna; 21 d)	-	2.4 mg/L (//OECD 218; Chironomus riparius; 28 d)
Sodium Cumenesulfonate	240 mg/L (EPA OTS 797.1050; Raphidocelis subcapitata; 4 d)	825 mg/L (EPA OTS 797.1400; Oncorhynchus mykiss; 4 d)	31 mg/L (Daphnia magna; 21 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))	-
Geraniol	1 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)	10 mg/L (OECD 203; Danio rerio; 4 d)	-	(13 mg/L (OECD 209; 0.5 h))	-
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))	-
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)
Benzyl Salicylate	0.502 mg/L (OECD 201; Raphidocelis subcapitata; 3 d)	-	0.894 mg/L (OECD 202; Daphnia magna; 2 d)	-	-
Benzisothiazolinone	0.05 mg/L (OECD 201; Raphidocelis subcapitata; 3 d)	-	-	-	10.3 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; 0.125 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

reisistence and degradabili				
Chemical name	Ready Biodegradation	Abiotic Degradation	Abiotic Degradation	Biodegradation Other
	Test (OECD 301)	Hydrolysis	Photolysis	Tests
Sodium C10-13 Alkyl	85 % (OECD 301 B;	-	-	85% CO2; 29 d; OECD 301
Benzenesulfonate	aerobic; CO2 evolution; 29 d)			В
C15 Pareth-n	60 % (OECD 301)	-	-	-
Sodium Laureth Sulfate	60 % (Category approach; OECD 301B; aerobic; 28 d)	-	-	-
Sodium Cumenesulfonate	98.8 % (; OECD 301 B; CO2 evolution; 28 d)	-	-	-
Citronellol	85 % (O2 consumption; 28 d)	-	0.16	-
Geraniol	95 % (OECD 301 A; DOC removal; 3 d)	-	-	94 (OECD 301 F; O2 consumption; 28 d)
Methylundecanal	68 % (O2; OECD 301 F; 22 d)		-	-
Benzyl Salicylate	93 % (O2; OECD 301 F; 28 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)
Benzisothiazolinone	0 % (CO2; OECD 301; 63 d)	-	0.31	-

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Delta-Damascone	16 % (O2: OECD 301: 28	332 d (OECD 111)	-	0% O2: 28 d: OECD 301 C
	d)			

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Sodium C10-13 Alkyl Benzenesulfonate	1.4
Sodium Laureth Sulfate	0.3
Sodium Cumenesulfonate	-1.1
Citronellol	3.41
Geraniol	2.6
Methylundecanal	4.9
Tetramethyl Acetyloctahydronaphthalenes	5.7
Benzyl Salicylate	4
Benzisothiazolinone	0.99

Chemical name	Octanol/water partition coefficient	Bioconcentration factor (BCF)
Sodium C10-13 Alkyl Benzenesulfonate	1.4 (1.4 (OECD 123))	87 L/kg (OECD 305 E)
Sodium Laureth Sulfate	3.9	-
Sodium Cumenesulfonate	-1.1 (-1.1 (OECD 107))	-
Citronellol	3.41	82.59 L/kg
Geraniol	2.6	-
Methylundecanal	4.9 (OECD 117)	2917 L/kg
Benzyl Salicylate	4	120-1170 (OECD 305 E)
Tetramethyl Acetyloctahydronaphthalenes	5.6 (OECD 117)	-
Benzisothiazolinone	0.7 (EU Method A.8)	6.62
Delta-Damascone	4.2	-

12.4. Mobility in soil

Mobility in soil Chemical name log Koc Sodium C10-13 Alkyl Benzenesulfonate 3.4 (3.4) Citronellol 70.79 (70.79) Geraniol 70.79 (70.79) Methylundecanal 3981 (3981 (OECD 121)) **Benzyl Salicylate** 5623 Tetramethyl Acetyloctahydronaphthalenes 4.12 Benzisothiazolinone 9.33 (OECD 121) 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	
Sodium C10-13 Alkyl Benzenesulfonate	The substance is not PBT / vPvB	
Sodium Laureth Sulfate	The substance is not PBT / vPvB	
Sodium Cumenesulfonate	The substance is not PBT / vPvB	
Citronellol	The substance is not PBT / vPvB	
Geraniol	The substance is not PBT / vPvB	
Methylundecanal	The substance is not PBT / vPvB	
Benzyl Salicylate	The substance is not PBT / vPvB	
Benzisothiazolinone	The substance is not PBT / vPvB	

12.6. Endocrine disrupting properties

Endocrine disrupting properties There are

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	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 14.2 14.3 14.4 14.5 14.6	UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user	Not regulated Not regulated Not regulated Not regulated Not applicable
	· · ·	
IMDG 14.1	<u>9</u> UN number or ID number	Not regulated
14.1	UN proper shipping name	Not regulated
14.2	Transport hazard class(es)	Not regulated
14.4		Not regulated
14.5		Not applicable
14.6		
14.7	· ·	No information available
	rding to IMO instruments	
	3	
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	
S	pecial Provisions	None
ADR		Not regulated
14.1	UN number or ID number	Not regulated
14.2 14.3	UN proper shipping name	Not regulated
14.3	Transport hazard class(es) Packing group	Not regulated Not regulated
14.4	Environmental hazards	Not applicable
14.5	Special precautions for user	
-	pecial Provisions	None
Ŭ		
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)

Chemical name	French RG number	Title
Benzisothiazolinone	RG 65	-

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

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)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Geraniol	75	-
Benzyl Salicylate	75	-
Benzisothiazolinone	75	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

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

Chemical name	EU - Plant Protection Products (1107/2009/EC)	
Geraniol	Plant protection agent	

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Geraniol	Product-type 18: Insecticides, acaricides and products to
	control other arthropods Product-type 19: Repellents and
	attractants
Benzisothiazolinone	Product-type 2: Disinfectants and algaecides not intended
	for direct application to humans or animals Product-type 6:
	Preservatives for products during storage Product-type 9:
	Fiber, leather, rubber and polymerized materials
	preservatives Product-type 11: Preservatives for
	liquid-cooling and processing systems Product-type 12:

Slimicides Product-type 13: Working or cutting fluid
preservatives

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
- H330 Fatal if inhaled
- H400 Very toxic to aquatic life
- H410 Very 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

TWĂ	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	Expert judgment and weight of evidence determination
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.

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