

According to Regulation (EU) No 2020/878

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	:	SHELL AIRFRESHENER LITTLE JOE OCEAN SPLASH
Product code	:	CRX768, AL61O

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

Application : SU21 Consumer product. PC3 Air care products for vehicles. Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier	 Kemetyl Nederland BV Industrieweg 30 3762 EK Soest, The Netherlands
E-mail	: +31-35 7604900 : msds@kemetyl.com : www.kemetyl.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only: NL - Telephone : +31-35-6099310

(During office hours only)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC)	:	Skin sensitization, category 1. Hazardous to the aquatic environment — Chronic category 3.
Human health hazards	:	May cause an allergic skin reaction.
Physical/chemical hazards	:	Not classified as dangerous according to statutory EC-Directives.

Environmental hazards : Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (1272/2008/EC): Hazard pictograms :



Signal word	: Warning	
H- and P-phrases	: H317 H412 P101 P102 P273 P280 gloves P302+P352 P333+P313 P501	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid release to the environment. Wear protective gloves. IF ON SKIN: Wash with plenty of water/soap. If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container to an official chemical waste depot.



According to Regulation (EU) No 2020/878

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases: Hazard pictograms



: Warning

Signal word

H- and P-phrases	: H317	May cause an allergic skin reaction.
	H412	Harmful to aquatic life with long lasting effects.
	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P280 gloves	Wear protective gloves.
	P302+P352	IF ON SKIN: Wash with plenty of water/soap.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P501	Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Linalyl acetate ; Linalool ; alpha-Hexylcinnamaldehyde ; d-Limonene ; 7-

Hydroxycitronellal ; 4-tert-Butylcyclohexyl acetate ; Citronellol ; Citral ; Geraniol ; Pin-2(10)-ene .

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.		EC number	Remark	REACH nr.
2,6-Dimethyloct-7-en-2-ol	< 4	18479-5	58-8	242-362-4		01-2119457274-37
Linalyl acetate	< 2,5	115-95-	7	204-116-4		01-2119454789-19
Linalool	< 1,25	78-70-6	;	201-134-4		01-2119474016-42
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c]pyran	< 0,7	1222-05	5-5	214-946-9		01-2119488227-29
alpha-Hexylcinnamaldehyde	< 0,7	101-86-	-0	202-983-3		01-2119533092-50
d-Limonene	< 0,7	5989-27	7-5	227-813-5		01-2119529223-47
7-Hydroxycitronellal	< 0,3	107-75-		203-518-7		01-2119973482-31
4-tert-Butylcyclohexyl acetate	< 0,25	32210-2	23-4	250-954-9		01-2119976286-24
Citronellol	< 0,25	106-22-	.9	203-375-0		01-2119453995-23
2,6-Di-tert-butyl-p-cresol	< 0,25	128-37-	-0	204-881-4		01-2119565113-46
Citral	< 0,25	5392-40	D-5	226-394-6		01-2119462829-23
Geraniol	< 0,25	106-24-	-1	203-377-1		01-2119552430-49
Pin-2(10)-ene	< 0,25	< 0,25 127-91-		204-872-5		01-2119519230-54
Substance name	Hazard Class	Hazard Class		ses	Pictograms	
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Ey	Skin Irrit. 2; Eye Irrit. 2		H319	GHS07	
Linalyl acetate	Skin Irrit. 2; Ski	in Sens.	H315;	H317; H319	GHS07	
	1B; Eye Irrit. 2					
Linalool	Skin Irrit. 2; Ski 1B; Eye Irrit. 2	Skin Irrit. 2; Skin Sens.		H317; H319	GHS07	



According to Regulation (EU) No 2020/878

1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	Aquatic Acute 1;	H400; H410	GHS09	M (chronic) = 1
hexamethylindeno[5,6-c]pyran	Aquatic Chronic 1			
alpha-Hexylcinnamaldehyde	Skin Sens. 1B; Aquatic Acute 1; Aquatic	H317; H400; H411	GHS07; GHS09	M (acute) = 1
	Chronic 2			
d-Limonene		H226; H304; H315; H317; H400; H412	GHS02; GHS07; GHS08; GHS09	M (acute) = 1
7-Hydroxycitronellal	Skin Sens. 1B; Eye Irrit. 2	H317; H319	GHS07	
4-tert-Butylcyclohexyl acetate	Skin Sens. 1B	H317	GHS07	
Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
2,6-Di-tert-butyl-p-cresol		H400; H410	GHS09	M (acute) = 1
Citral	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Geraniol	Skin Irrit. 2; Skin Sens. 1B; Eye Dam. 1	H315; H317; H318	GHS05; GHS07	
Pin-2(10)-ene	-	H226; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 **FIRST-AID MEASURES**

4.1. Description of first aid measures

First aid measures	
Inhalation	: Not applicable under normal conditions of use. Consult a doctor if victim feels unwell.
Skin contact	: Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
Eye contact	: Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.
Ingestion	: Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms	
Inhalation	: No specific effects and/or symptoms are known.
Skin contact	: May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
Eye contact Ingestion	May cause stinging of eyes and redness.May cause a feeling of sickness, vomiting and diarrhoea.

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

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES



According to Regulation (EU) No 2020/878

5.1. Extinguishing media

Extinguishing media	
Suitable	: Carbondioxide (CO2). Foam. Dry chemical. Water fog.
Not suitable	: Water jet. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards	:	None known.
Hazardous thermal	:	Carbon monoxide may be evolved if incomplete combustion occurs.
decomposition products		

5.3. Advice for firefighters

Special protective : Use adequate respiratory equipment in case of insufficient ventilation. equipment for fire-fighters

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	: Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with
	spilled or released material.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water. Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling	: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.
	Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Recommended packaging	 Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. Keep only in the original container.
Non recommended packaging	: None known.

7.3. Specific end use(s)

Use

: Use only as directed.



According to Regulation (EU) No 2020/878

EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION 8

8.1. Control parameters

Occupational exposure : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have limits not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments	Source
		(mg/m3)	(mg/m3)		
d-Limonene		28	80		MAC: DE, CH
2,6-Di-tert-butyl-p-cresol	GB	10	-	-	

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-te	rm	DNEL, long-term	
	exposure	Local effect	Systemic effect	Local effect	Systemic effect
2,6-Dimethyloct-7-en-2-ol	Dermal				7 mg/kg bw/day
	Inhalation				24.7 mg/m3
Linalyl acetate	Dermal	0,2362 mg/kg		0,2362 mg/kg	2,5 mg/kg bw/day
		bw		bw/day	
	Inhalation				2,75 mg/m3
Linalool	Inhalation				24.58 mg/m3
	Dermal	3 mg/kg bw		3 mg/kg bw/day	3.5 mg/kg bw/day
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c]pyran	Dermal				28,85 mg/kg bw/day
	Inhalation				5,29 mg/m3
alpha-Hexylcinnamaldehyde	Inhalation	6,28 mg/m3			0,078 mg/m3
	Dermal	0,525 mg/kg		0,525 mg/kg bw/	18,2 mg/kg bw/day
		bw		day	
d-Limonene	Inhalation				66,7 mg/m3
	Dermal				9,5 mg/kg bw/day
7-Hydroxycitronellal	Inhalation				18 mg/m3
	Dermal			0.5 mg/kg bw/	1,9 mg/kg bw/day
				day	
Citronellol	Inhalation	10 mg/m3		10 mg/m3	161,6 mg/m3
	Dermal	2,950 mg/kg		-	327,4 mg/kg bw/day
		bw			
2,6-Di-tert-butyl-p-cresol	Inhalation				3,5 mg/m3
	Dermal				0,5 mg/kg bw/day
Citral	Inhalation				9 mg/m3
	Dermal				1,7 mg/kg bw/day
Geraniol	Inhalation				161,6 mg/m3
	Dermal				12,5 mg/kg bw/day
Pin-2(10)-ene	Inhalation				5,69 mg/m3
	Dermal			0,054 mg/kg bw/	0,8 mg/kg bw/day
				day	

Derived no-effect level (DNEL) for consumers:					
Chemical name	Route of	DNEL, short-term		DNEL, long-term	
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
2,6-Dimethyloct-7-en-2-ol	Dermal Inhalation				2.5 mg/kg bw/day 4.35 mg/m3



According to Regulation (EU) No 2020/878

Oral 2.5 mg/kg bw/day _inalyl acetate Dermal 0,2362 mg/kg 0,2362 mg/kg 1,25 mg/kg bw/day bw/day bw Inhalation 0,68 mg/m3 0,2 mg/kg bw/day Oral Linalool Dermal 1.5 mg/kg bw 1.5 mg/kg bw/ 1.25 mg/kg bw/day day Inhalation 4.33 mg/m3 2.49 mg/kg bw/day Oral 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-Dermal 14,43 mg/kg bw/day hexamethylindeno[5,6-c]pyran Inhalation 1,3 mg/m3 0,75 mg/kg bw/day Oral 0,019 mg/m3 alpha-Hexylcinnamaldehyde Inhalation 4,71 mg/m3 Dermal 0,0787 mg/kg 0,0787 mg/kg 9,11 mg/kg bw/day bw/day bw Oral 0,056 mg/kg bw/day d-Limonene Inhalation 16,6 mg/m3 Dermal 4,8 mg/kg bw/day Oral 4,8 mg/kg bw/day 7-Hydroxycitronellal Inhalation 5,4 mg/m3 Dermal 0.5 mg/kg bw/ 1,1 mg/kg bw/day day Oral 0,6 mg/kg bw/day Citronellol Inhalation 10 mg/m3 10 mg/m3 47,8 mg/m3 Dermal 2,950 mg/kg 196,4 mg/kg bw/day bw Oral 13,8 mg/kg bw/day 2,6-Di-tert-butyl-p-cresol Inhalation 0,86 mg/m3 Dermal 0,25 mg/kg bw/day Oral 0,25 mg/kg bw/day Citral Dermal 1 mg/kg bw/day Inhalation 2,7 mg/m3 Oral 0,6 mg/kg bw/day Geraniol Inhalation 47,8 mg/m3 Dermal 7,5 mg/kg bw/day Oral 13,75 mg/kg bw/day Inhalation 1 mg/m3 Pin-2(10)-ene Dermal 0,027 mg/kg bw/ 0,3 mg/kg bw/day day Oral 0,3 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
2,6-Dimethyloct-7-en-2-ol	Water	0,0278 mg/l	0,0027 mg/l	
-	Sediment	0,594 mg/kg	0,0594 mg/kg	
	Intermittent water			0,278 mg/l
	STP			10 mg/l
	Soil			0,103 mg/kg
	Oral			111 mg/kg food
Linalyl acetate	Water	0,011 mg/l	0,001 mg/l	
-	Sediment	0,609 mg/kg	0,061 mg/kg	
	Intermittent water			0,11 mg/l
	STP			1 mg/l
	Soil			0,115 mg/kg
Linalool	Water	0,2 mg/l	0,02 mg/l	



According to Regulation (EU) No 2020/878

	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water	_,	o,g	2 mg/l
	STP			10 mg/l
	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	Water	0,0044 mg/l	0,0004 mg/l	, o highly lood
hexamethylindeno[5,6-c]pyran	vvator	0,0044 mg/i	0,0004 mg/i	
nexametryindeno[5,0-c]pyran	Sediment	2 ma/ka	0.204 mg/kg	
	Intermittent water	2 mg/kg	0,394 mg/kg	0.047 mg/l
				0,047 mg/l
	STP			1 mg/l
	Soil			0,31 mg/kg
	Oral	0.004		3,3 mg/kg food
alpha-Hexylcinnamaldehyde	Water	0.001 mg/l		
	Sediment	3.2 mg/kg	0.064 mg/kg	
	Intermittent water			0,03 mg/l
	STP			10 mg/l
	Soil			0.398 mg/kg
	Oral			6.6 mg/kg food
d-Limonene	Water	0.014 mg/l	0.0014 mg/l	
	Sediment	3.85 mg/kg	0.385 mg/kg	
	STP			1.8 mg/l
	Soil			0.763 mg/kg
	Oral			133 mg/kg food
7-Hydroxycitronellal	Water	0.0316 mg/l	0.00316 mg/l	
, , , , , , , , , , , , , , , , , , ,	Sediment	0.145 mg/kg	0.015 mg/kg	
	STP			10 mg/l
	Soil			0.011 mg/kg
4-tert-Butylcyclohexyl acetate	Water	0,0053 mg/l	0,00053 mg/l	ere rriging
	Sediment	2,01 mg/kg	0,21 mg/kg	
	Intermittent water	2,01 mg/kg	0,2 r mg/ng	0,053 mg/l
	STP			12,2 mg/l
	Soil			0,42 mg/kg
	Oral			66,76 mg/kg food
Citronellol	Water	0.002 mg/l	0 mg/l	
Citionelloi	Sediment	0.026 mg/kg		
		0.026 mg/kg	0.003 mg/kg	0.024 mm/
	Intermittent water STP			0,024 mg/l 580 mg/l
	Soil	0.000100	0.00000	0.004 mg/kg
2,6-Di-tert-butyl-p-cresol	Water	0,000199 mg/l	0,00002 mg/l	
	Sediment	0,0996 mg/kg	0,00996 mg/kg	
	STP			0,17 mg/l
	Soil			0,04769 mg/kg
	Oral			8,33 mg/kg food
Citral	Water	0,00678 mg/l	0,000678 mg/l	
Citral	Sediment	0,00678 mg/l 0,125 mg/kg	0,000678 mg/i 0,0125 mg/kg	
Citral	Sediment Intermittent water			0,0678 mg/l
Citral	Sediment Intermittent water STP			1,6 mg/l
Citral	Sediment Intermittent water	0,125 mg/kg	0,0125 mg/kg	
	Sediment Intermittent water STP		0,0125 mg/kg 0,0010 mg/l	1,6 mg/l
	Sediment Intermittent water STP Soil	0,125 mg/kg	0,0125 mg/kg	1,6 mg/l
	Sediment Intermittent water STP Soil Water Sediment Intermittent water	0,125 mg/kg 0,0108 mg/l	0,0125 mg/kg 0,0010 mg/l	1,6 mg/l
	Sediment Intermittent water STP Soil Water Sediment	0,125 mg/kg 0,0108 mg/l	0,0125 mg/kg 0,0010 mg/l	1,6 mg/l 0,0209 mg/kg
	Sediment Intermittent water STP Soil Water Sediment Intermittent water	0,125 mg/kg 0,0108 mg/l	0,0125 mg/kg 0,0010 mg/l	1,6 mg/l 0,0209 mg/kg 0,108 mg/l
Citral Geraniol Pin-2(10)-ene	Sediment Intermittent water STP Soil Water Sediment Intermittent water STP	0,125 mg/kg 0,0108 mg/l	0,0125 mg/kg 0,0010 mg/l	1,6 mg/l 0,0209 mg/kg 0,108 mg/l 0,7 mg/l



According to Regulation (EU) No 2020/878

STP	3,26 mg/l
Soil	0,067 mg/kg
Oral	13,1 mg/kg food

8.2. Exposure controls

Engineering measures Hygienic measures

- : Comply with standard precautionary measures for working with chemicals.
- : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection	: Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN
	365/367 resp. 345. Suitable material: laminated film. Indication of permeation breakthrough time: not known.
Respiratory protection	: Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale
	exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
Hand protection	: Wear appropriate safety gloves in accordance with EN 374. Suitable material: laminated film. ± 0,5
	mm. Indication of permeation breakthrough time: not known.
Eye protection	: Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.	Impregnated material.
Colour	: Light yellow.	
Odour	: Perfumed.	
Odour threshold	: Not known.	Not measured. Not relevant. Does not contain substances with a specific inhalation risk.
pH	: Not applicable.	Waterfree product.
Solubility in water	: Not soluble.	
Partition coefficient (n-oc- tanol/water)	: Not known.	Not measured. Not relevant for mixtures.
Flash point	: > 100 °C	Closed cup.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 200 °C	
Boiling point/boiling range	: >100 °C	
Melting point/melting range		
Explosive properties	: Not an explosive.	
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,7 (Linalyl acetate)
		Upper explosion limit in air (%): 5,2 (Linalool)
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature		
Viscosity (20°C)	: Not known.	
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
,	: Not known.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)		(air - 1)
Relative vapour density	: >1	(air = 1)
Relative density (20°C)	: 1 g/ml	
Particle characteristics	: Not applicable.	Liquid.



According to Regulation (EU) No 2020/878

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known. products

SECTION 11 TOXICOLOGICAL INFORMATION

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

No toxicological research has been carried out on this product. Inhalation

Acute toxic	city :	Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 4 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. No specific effects and/or symptoms are known.
Corrosion/	'irritation :	Not classified - based on available data, the classification criteria are not met.
Sensitisati	on :	Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
Carcinoge	nicity :	Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
Mutagenic	ity :	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Skin contact		
Acute toxic	city :	Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
Corrosion/	'irritation :	Not classified - based on available data, the classification criteria are not met.
Sensitisati	on :	May cause sensitisation by skin contact. May produce an allergic reaction.
Mutagenic	ity :	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact



Corrosion/irritation	: Slight irritation possible. Not classified - based on available data, the classification criteria are not met.
Ingestion	
Acute toxicity	: Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
Aspiration	Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
Corrosion/irritation	: May cause a feeling of sickness, vomiting and diarrhoea.
Carcinogenicity	: Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
Mutagenicity	: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Reprotoxicity	: Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Linalyl acetate	Outdoor cleaners	1000 mg/kg bw/d	OECD 414	Rat
	(excludes stone,			
	concrete and similar			
	surfaces)			
	LD50 (oral)	13934 mg/kg bw		Rat
	LC50 (inhalation)	> 2740 mg/m3		Mouse
	Skin irritation	Non-irritant		Human
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (oral)	160 mg/kg bw/d	OECD 407	Rat
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (development,	> 1000 mg/kg bw/d	OECD 414	Rat
	oral)			
	LC50 (inhalation) -	> 5000 mg/m3		Rat
	estimate			
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
Linalool	NOAEL (development,	365 mg/kg bw/d		Rat
	oral)			
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	500 mg/kg bw/d		Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse
	LD50 (dermal)	5610 mg/kg bw		Rabbit
	Skin irritation	Mildly irritant		Human
	LD50 (oral)	2790 mg/kg bw		Rat
	NOAEL (oral)	117 mg/kg bw/d		Rat
alpha-Hexylcinnamaldehyde	NOAEL (development,	100 mg/kg bw/d	OECD 421	Rat
	oral)			
	Genotoxicity - in vivo	Not genotoxic	OECD 474	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium



According to Regulation (EU) No 2020/878

	Eye irritation	Non-irritant		Rabbit
	NOAEL (oral) -	30 mg/kg bw/d	Read across	Rat
	estimate			
	LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation)	> 5000 mg/m3	OECD 403	Rat
	LD50 (oral)	> 2450 mg/kg bw	OECD 401	Rat
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	NOAEL (dermal)	25 mg/kg bw/d		Rat
d-Limonene	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)		OECD 451	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	5500 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	600 mg/kg bw/d		Rat
	Skin irritation	Irritant		
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	LD50 (oral)	> 2000 mg/kg bw	OECD 423	Rat
	Genotoxicity - in vitro	Not genotoxic	0200 120	
	NOAEL (oral)	150 mg/kg bw/d		Rat
7-Hydroxycitronellal	Respiratory irritation	Irritant		
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	Skin sensitisation	5612 ug/cm2	OECD 429	Mouse
	Skin irritation	850 ug/cm2	OECD 404	modee
	Eye irritation	Irritant	OLOD IOI	
	Skin irritation	Non-irritant		
	LD50 (oral)	> 5000 mg/kg bw		Rat
	NOEL (oral)	250 mg/kg bw/d		
	Genotoxicity - in vivo	Not genotoxic		Mouse
	NOEL (carcinogenicity) - estimate			medee
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
4-tert-Butylcyclohexyl acetate	LD50 (oral)	5000 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Eye irritation	Non-irritant		Rabbit
	Skin irritation	Non-irritant		Rabbit
	NOAEL (oral) - estimate	710 mg/kg bw/d	Read across	
Citronellol	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Skin irritation	Moderately irritant		Rabbit
	LD50 (oral)	3450 mg/kg bw		Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	NOAEL (fertility, dermal)	300 mg/kg bw/d	OECD 421	Rat
	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Moderately irritant	Patch test	Human
	Eye irritation	Moderately irritant		Rabbit
		> 1000 mg/kg bw/d	OECD 421	Rat
Citral	NOAEL (fertility, oral)	$> 1000 m_{0}/\kappa_{0} m_{0}/c$		Rai



According to Regulation (EU) No 2020/878

	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Skin irritation	Moderately irritant		Rabbit
	Skin irritation	Irritant		Human
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (developmental	423 mg/m3		Rat
	toxicity, inh.)			
	NOEL (carcinogenicity,	> 100 mg/kg bw/d	OECD 453	Rat
	oral)			
	Mutagenicity	Negative	OECD 471	
	LD50 (oral)	4960 mg/kg bw		Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	833 mg/kg bw/d		Rat
	LD50 (dermal)	2250 mg/kg bw		Rabbit
		200 mg/kg bw/d	OECD 421	Rat
	oral)			
Geraniol	NOEL (oral)	> 550 mg/kg bw/d		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	LD50 (oral)	> 2840 mg/kg bw		Rat
	NOEL (carcinogenicity)	Not carcinogenic	Read across	
	- estimate	-		
	NOAEL (dermal)	300 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (developmental	> 300 mg/kg bw/d	OECD 421	Rat
	toxicity, dermal)			
	NOAEL (fertility,	> 300 mg/kg bw/d	OECD 421	Rat
	dermal)			
	Skin sensitisation	3525 ug/cm2	OECD 429	Mouse
Pin-2(10)-ene	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	Eye irritation	Moderately irritant	OECD 405	Rabbit
	NOAEL (development)	250 mg/kg.d	Read across	
	- estimate			
	Skin irritation	Irritant		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (oral)	> 5000 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit

11.2. Information on other hazards

Endocrine disrupting	: Not applicable.
properties	
Other information	: Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product. Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 67 mg/l. Calculated EC50 (waterflea): 40 mg/ I. Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence - degradability : May cause long-term adverse effects in the aquatic environment.



According to Regulation (EU) No 2020/878

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Endocrine disrupting properties

Endocrine disrupting : Not applicable. properties

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	Ultimate aerobic	2 %	OECD 301 B	
hexamethylindeno[5,6-c]pyran	biodegradation (%)			
	IC50 (algea)	> 0,85 mg/l	OECD 201	Pseudokirchnerella
				subcapitata
	NOEC (waterflea) -	0,111 mg/l.d	OECD 202	Daphnia magna
	chronic	-		-
	LC50 (fish)	1,36 mg/l	OECD 204	Lepomis macrochirus
	NOEC (fish)	0,068 mg/l.d	OECD 210	Pimephales promelas
	EC50 (waterflea)	0,47 mg/l		
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	Log P(ow)	5,9		
hexamethylindeno[5,6-c]pyran				
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	BCF	1584		
hexamethylindeno[5,6-c]pyran				
2,6-Di-tert-butyl-p-cresol	NOEC (waterflea) -	0,23 mg/l	OECD 202	Daphnia magna
	acute			
	NOEC (waterflea) -	0,316 mg/l.d	OECD 202	Daphnia magna
	chronic			
	IC50 (algea)	> 0,4 mg/l	OECD 201	Desmodesmus
				subspicatus
	EC50 (waterflea)	0,61 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic	4,5 %	OECD 301 C	
	biodegradation (%)			
	EC0 (waterflea)	0,31 mg/l	OECD 202	Daphnia magna
	LC50 (bacteria)	> 10000 mg/l		
	LC50 (fish)	> 5000 mg/l	OECD 203	Brachydanio rerio
2,6-Di-tert-butyl-p-cresol	Log P(ow)	5,1		
2,6-Di-tert-butyl-p-cresol	BCF	598,4		
Pin-2(10)-ene	LC50 (fish)	0,502 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	1,25 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic	76 %	OECD 301 D	-
	biodegradation (%)			
	IC50 (algea)	0,826 mg/l	OECD 201	Pseudokirchnerella
		-		subcapitata
Pin-2(10)-ene	Log P(ow)	4,4		



According to Regulation (EU) No 2020/878

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues	: Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as hazardous waste.
Additional warning	: None.
Waste water discharge	: Do not dispose into the environment, in drains or in water courses.
European waste catalogue	: Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
Local legislation	: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : None.

14.2. UN proper shipping name

: Not regulated. Transport name

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/rail) Class	way/inland waterways) : This product is not classified according to ADR/RID/ADN.
IMDG (sea) Class Marine pollutant	: This product is not classified according to IMDG. : No
IATA (air) Class	: This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

: Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other Community regulations regulations. Directive 2008/98/EC (waste).

15.2. Chemical safety assessment

Chemical safety	: Not applicable.
assessment	



According to Regulation (EU) No 2020/878

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: International Bulk Chemical Code
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
UFI	: Unique formula identifier
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

	0
Skin Sens. 1/1A/1B	: Calculation method.
Aquatic Chronic 3	: Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	:	Flammable liquid, category 3.
Skin Irrit. 2	:	Skin irritation, category 2.
Eye Dam. 1	:	Serious eye damage, category 1.
Eye Irrit. 2	:	Eye irritation, category 2.
Skin Sens. 1/1A/1B	:	Skin sensitization, category 1/1A/1B.
Asp. Tox. 1	:	Aspiration hazard, category 1.
Aquatic Chronic 1	:	Hazardous to the aquatic environment — Chronic category 1.



Safety data sheet According to Regulation (EU) No 2020/878

: Hazardous to the aquatic environment — Chronic category 2.			
: Hazardous to the aquatic environment — Chronic category 3.			
: Hazardous to the aquatic environment — Acute category 1.			
oned in section 3:			
Flammable liquid and vapour.			
May be fatal if swallowed and enters airways.			
Causes skin irritation.			
May cause an allergic skin reaction.			
Causes serious eye damage.			
Causes serious eye irritation.			
Very toxic to aquatic life.			
Very toxic to aquatic life with long lasting effects.			
Toxic to aquatic life with long lasting effects.			
Harmful to aquatic life with long lasting effects.			
Advice on any training appropriate for workers: none.			
: "," used as decimal separator.			

End of safety data sheet.

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