



Kemetyl

Safety data sheet

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 AIR FRESHENER LITTLE JOE FRUIT
Product code : CRX854, AL61D

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 Polska Sp. z o. o.
Al. Jerozolimskie 146
02-305 Warszawa, Poland
Telephone : +48 22 822 5390
E-mail : msds@kemetyl.com
Website : www.kemetyl.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

PL - Telephone : +48 22 822 5390

(During office hours only)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Skin irritation, category 2. Eye irritation, category 2. Skin sensitization, category 1. Hazardous to the aquatic environment — Chronic category 2.

Human health hazards : Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

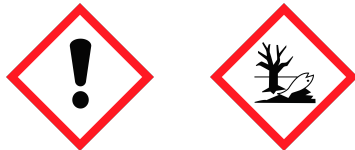
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Combustible.

Environmental hazards : Toxic 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	:	H315	Causes skin irritation.
		H319	Causes serious eye irritation.
		H317	May cause an allergic skin reaction.
		H411	Toxic 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 hands eyes	Wear protective gloves and eye protection.
		P273	Avoid release to the environment.
		P391	Collect spillage.

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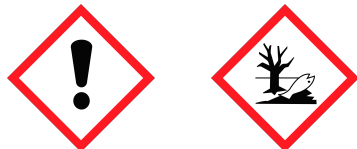
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P501 Dispose of contents/container to an official chemical waste depot.

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

Hazard pictograms :



Signal word : Warning

H- and P-phrases :

H317 May cause an allergic skin reaction.

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: 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; 4-tert-Butylcyclohexyl acetate ; Geraniol ; (Ethoxymethoxy)cyclododecane ; Linalyl acetate ; [3R-(3 α ,3 $\alpha\beta$,6 β ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene ; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde ; 3,7-Dimethyloctan-3-ol ; Citral ; Coumarin ; d-Limonene ; 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one .

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.
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	2,5 - < 5	-----	911-280-7		01-2119969444-27
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	2,5 - < 5	54464-57-2	259-174-3		01-2119489989-04
2,6-Dimethyloct-7-en-2-ol	1 - < 5	18479-58-8	242-362-4		01-2119457274-37
4-tert-Butylcyclohexyl acetate	1 - < 5	32210-23-4	250-954-9		01-2119976286-24
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	2,5 - < 5	127-51-5	204-846-3		
Geraniol	1 - < 3	106-24-1	203-377-1		01-2119552430-49
(Ethoxymethoxy)cyclododecane	1 - < 2,5	58567-11-6	261-332-1		01-2119971571-34
Linalyl acetate	1 - < 5	115-95-7	204-116-4		01-2119454789-19
Benzyl acetate	1 - < 5	140-11-4	205-399-7		01-2119638272-42
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	1 - < 2,5	79-77-6	201-224-3		01-2119449921-34
3-Ethoxy-4-hydroxybenzaldehyde	1 - < 5	121-32-4	204-464-7		01-2119958961-24
[3R-(3 α ,3 $\alpha\beta$,6 β ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	1 - < 2,5	19870-74-7	243-384-7		

Product name : Shell Air Freshener Little Joe fruit

Date of issue : 2022-08-22

Replaces issue dated : ---

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Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1 - < 2,5	1205-17-0	214-881-6		01-2120740119-58
3,7-Dimethyloctan-3-ol	1 - < 5	78-69-3	201-133-9		01-2119454788-21
2-Ethyl-3-hydroxy-4-pyrone	1 - < 5	4940-11-8	225-582-5		01-2120758795-36
Citral	0,1 - < 1	5392-40-5	226-394-6		01-2119462829-23
Coumarin	0,1 - < 1	91-64-5	202-086-7		01-2119949300-45
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	0,1 - < 1	469-61-4	207-418-4		
d-Limonene	0,1 - < 1	5989-27-5	227-813-5		01-2119529223-47
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	0,01 - < 0,1	57378-68-4	260-709-8		

Substance name	Hazard Class	H-phrases	Pictograms	
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1	H302; H400; H410	GHS07; GHS09	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1	H315; H317; H410	GHS07; GHS09	M (chronic) = 1
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
4-tert-Butylcyclohexyl acetate	Skin Sens. 1B	H317	GHS07	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Aquatic Chronic 2	H411	GHS09	
Geraniol	Skin Irrit. 2; Skin Sens. 1B; Eye Dam. 1	H315; H317; H318	GHS05; GHS07	
(Ethoxymethoxy)cyclododecane	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Benzyl acetate	Aquatic Chronic 3	H412		
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Aquatic Chronic 2	H411	GHS09	
3-Ethoxy-4-hydroxybenzaldehyde	Eye Irrit. 2	H319	GHS07	
[3R-(3α,3aβ,6β,7β,8aα)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H317; H400; H410	GHS07; GHS09	
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Skin Sens. 1B; Repr. 2; Aquatic Chronic 2	H317; H361fd; H411	GHS07; GHS08; GHS09	
3,7-Dimethyloctan-3-ol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
2-Ethyl-3-hydroxy-4-pyrone	Acute Tox. 4	H302	GHS07	
Citral	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Coumarin	Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 3	H302; H317; H412	GHS07	
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1	H304; H400; H410	GHS08; GHS09	M (acute) = 10 M (chronic) = 10
d-Limonene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 3	H226; H304; H315; H317; H400; H412	GHS02; GHS07; GHS08; GHS09	M (acute) = 1



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1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1	H302; H315; H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
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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.
- 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 : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
- Eye contact : Irritant. May cause redness and pain.
- Ingestion : 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

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 decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures



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Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

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. Keep away from sources of ignition — No smoking. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place. Keep away from oxidizing agents.

Recommended packaging : Keep only in the original container.

Non recommended packaging : None known.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : 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 not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments	Source
Benzyl acetate		5	-		MAC: LT
d-Limonene		28	80		MAC: DE, CH

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect



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Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Inhalation				3,17 mg/m3
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Dermal				0,9 mg/kg bw/day
	Inhalation				30 mg/m3
2,6-Dimethyloct-7-en-2-ol	Dermal			0,648 mg/kg bw/day	28,7 mg/kg bw/day
	Inhalation				7 mg/kg bw/day 24,7 mg/m3
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Inhalation				8,22 mg/m3
	Dermal				0,375 mg/kg bw/day
Geraniol	Inhalation				161,6 mg/m3
(Ethoxymethoxy)cyclododecane	Dermal				12,5 mg/kg bw/day
	Inhalation				23,5 mg/m3
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	3,3 mg/kg bw/day 2,5 mg/kg bw/day
	Inhalation				2,75 mg/m3
Benzyl acetate	Inhalation				9 mg/m3
	Dermal				2,5 mg/kg bw/day
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Dermal				6 mg/kg bw/day
	Inhalation				12,7 mg/m3
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Inhalation				1,2 mg/m3
	Dermal			0,01 mg/kg bw/day	0,17 mg/kg bw/day
3,7-Dimethyloctan-3-ol	Inhalation				11,14 mg/m3
	Dermal			0,190 mg/kg bw/day	3,16 mg/kg bw/day
2-Ethyl-3-hydroxy-4-pyrone	Inhalation				58,7 mg/m3
	Dermal				16,7 mg/kg bw/day
Citral	Inhalation				9 mg/m3
	Dermal				1,7 mg/kg bw/day
Coumarin	Dermal				0,79 mg/kg bw/day
	Inhalation				6,78 mg/m3
d-Limonene	Inhalation				66,7 mg/m3
	Dermal				9,5 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Inhalation				0,78 mg/m3
	Dermal				0,45 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Oral				0,45 mg/kg bw/day
	Inhalation				9 mg/m3
2,6-Dimethyloct-7-en-2-ol	Dermal			0,380 mg/kg bw/day	17,2 mg/kg bw/day
	Oral				3 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal				2,5 mg/kg bw/day
	Inhalation				4,35 mg/m3



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3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Oral Inhalation				2.5 mg/kg bw/day 1.45 mg/m3
Geraniol	Dermal Oral Inhalation				0.0446 mg/kg bw/day 0.0355 mg/kg bw/day 47,8 mg/m3
(Ethoxymethoxy)cyclododecane	Dermal Oral Inhalation				7,5 mg/kg bw/day 13,75 mg/kg bw/day 5,8 mg/m3
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	1,67 mg/kg bw/day 1,67 mg/kg bw/day 1,25 mg/kg bw/day
Benzyl acetate	Inhalation Oral Inhalation				0,68 mg/m3 0,2 mg/kg bw/day 2.2 mg/m3
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Dermal Oral Dermal		6,25 mg/kg bw		1.3 mg/kg bw/day 1.3 mg/kg bw/day 3.6 mg/kg bw/day
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Inhalation Oral Inhalation				3.1 mg/m3 1.8 mg/kg bw/day 0,29 mg/m3
3,7-Dimethyloctan-3-ol	Dermal Oral Inhalation			0,005 mg/kg bw/day	0,083 mg/kg bw/day 0,17 mg/kg bw/day 2,75 mg/m3
2-Ethyl-3-hydroxy-4-pyrone	Dermal Oral Inhalation			0,190 mg/kg bw/day	1,58 mg/kg bw/day 1,58 mg/kg bw/day 17,4 mg/m3
Citral	Dermal Oral Inhalation				10 mg/kg bw/day 10 mg/kg bw/day 1 mg/kg bw/day 2,7 mg/m3
Coumarin	Oral Dermal Oral				0,6 mg/kg bw/day 0,39 mg/kg bw/day 0,39 mg/kg bw/day
d-Limonene	Inhalation Inhalation Dermal Oral				1,69 mg/m3 16,6 mg/m3 4,8 mg/kg bw/day 4,8 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Water	0,0007 mg/l	0,0001 mg/l	
	Sediment	0,389 mg/kg	0,039 mg/kg	
	Intermittent water			0,0077 mg/l
	STP			10 mg/l
	Soil			1,786 mg/kg
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Oral			80 mg/kg food
	Water	0.0044 mg/l	0.00044 mg/l	
	Sediment	3.73 mg/kg	0.75 mg/kg	



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2,6-Dimethyloct-7-en-2-ol	STP			10 mg/l
	Soil			2.7 mg/kg
	Oral			26.7 mg/kg food
	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
4-tert-Butylcyclohexyl acetate	Oral			111 mg/kg food
	Water	0,0053 mg/l	0,00053 mg/l	
	Sediment	2,01 mg/kg	0,21 mg/kg	
	Intermittent water			0,053 mg/l
	STP			12,2 mg/l
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Soil			0,42 mg/kg
	Oral			66,76 mg/kg food
	Water	0.00143 mg/l	0.000143 mg/l	
	Sediment	0.443 mg/kg	0.0443 mg/kg	
	STP			10 mg/l
Geraniol	Soil			0.0878 mg/kg
	Water	0,0108 mg/l	0,0010 mg/l	
	Sediment	0,115 mg/kg	0,0115 mg/kg	
	Intermittent water			0,108 mg/l
	STP			0,7 mg/l
(Ethoxymethoxy)cyclododecane	Soil			0,0167 mg/kg
	Water	0,0016 mg/l	0,00016 mg/l	
	Sediment	2,35 mg/kg	0,235 mg/kg	
	Intermittent water			0,016 mg/l
	STP			100 mg/l
Linalyl acetate	Soil			0,468 mg/kg
	Oral			33,3 mg/kg food
	Water	0,011 mg/l	0,001 mg/l	
	Sediment	0,609 mg/kg	0,061 mg/kg	
	Intermittent water			0,11 mg/l
Benzyl acetate	STP			1 mg/l
	Soil			0,115 mg/kg
	Water	0.018 mg/l	0.002 mg/l	
	Sediment	0.526 mg/kg	0.053 mg/kg	
	Intermittent water			0,04 mg/l
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	STP			8,55 mg/l
	Soil			0.094 mg/kg
	Water	0.004 mg/l	0 mg/l	
	Sediment	0.151 mg/kg	0.015 mg/kg	
	Intermittent water			0,7 mg/l
3-Ethoxy-4-hydroxybenzaldehyde	STP			1 mg/l
	Soil			0.015 mg/kg
	Water	0,118 mg/l	0,0118 mg/l	
	Sediment	15 mg/kg	1,5 mg/kg	
	Intermittent water			10 mg/l
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	STP			2,923 mg/kg
	Soil			
	Water	0,005 mg/l	0,001 mg/l	
	Sediment	0,057 mg/kg	0,006 mg/kg	
	STP			10 mg/l



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3,7-Dimethyloctan-3-ol	Soil			0,008 mg/kg
	Water	0.009 mg/l	0.001 mg/l	
	Sediment	0.082 mg/kg	0.008 mg/kg	
	Intermittent water			0,089 mg/l
2-Ethyl-3-hydroxy-4-pyrone	STP			450 mg/l
	Soil			0.011 mg/kg
	Water	0,0072 mg/l	0,00072 mg/l	
	Sediment	0,27 mg/kg	0,027 mg/kg	
Citral	STP			1,55 mg/l
	Soil			0,049 mg/kg
	Water	0,00678 mg/l	0,000678 mg/l	
	Sediment	0,125 mg/kg	0,0125 mg/kg	
Coumarin	Intermittent water			0,0678 mg/l
	STP			1,6 mg/l
	Soil			0,0209 mg/kg
	Water	0,019 mg/l	0,0019 mg/l	
d-Limonene	Sediment	0,15 mg/kg	0,015 mg/kg	
	Intermittent water			0,0142 mg/l
	STP			6,4 mg/l
	Soil			0,018 mg/kg
d-Limonene	Oral			30,7 mg/kg food
	Water	0.014 mg/l	0.0014 mg/l	
	Sediment	3.85 mg/kg	0.385 mg/kg	
	STP			1.8 mg/l
d-Limonene	Soil			0.763 mg/kg
	Oral			133 mg/kg food

8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

Hygienic measures : 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 with side shields, in accordance with EN 166, when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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According to Regulation (EU) No 2020/878

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.	Impregnated material.
Colour	: Light yellow.	
Odour	: Perfumed.	
Odour threshold	: Not known.	
pH	: Not applicable.	Waterfree product.
Solubility in water	: Not soluble.	
Partition coefficient (n-octanol/water)	: Not known.	Not measured. Not relevant for mixtures.
Flash point	: > 60 °C	
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 225 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: Not known.	
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 (%): 4,3 (Linalyl acetate)
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: Not known.	
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: Not known.	
Relative vapour density	: > 1	(air = 1)
Relative density (20°C)	: 1 g/ml	
Particle characteristics	: Not applicable.	Liquid.

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 products : Not known.



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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 toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 28 %. ATE: 238,153846153846 mg/l. 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.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. 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.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Irritant.

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 : Not expected to be carcinogenic. 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 classified - Based on available data, the classification criteria are not met. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Skin irritation	Non-irritant	----	Rabbit
	Skin sensitisation	6825 ug/cm2	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw	----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	----	Rat
	Mutagenicity	Not mutagenic	OECD 471	----
	NOAEL (development, oral)	480 mg/kg bw/d	OECD 414	Rat
2,6-Dimethyloct-7-en-2-ol	LC50 (inhalation) - estimate	> 22360 mg/m3	Read across	
	NOAEL (development) - estimate	1000 mg/kg.d	Read across	Rat
	Mutagenicity	Not mutagenic	OECD 471	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	



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4-tert-Butylcyclohexyl acetate	NOAEL (oral) - estimate	500 mg/kg bw/d	Read across	Rat
	LD50 (oral)	3600 mg/kg bw	----	Rat
	Skin sensitisation	Not sensitizing		
	Skin irritation	Slightly irritant	----	Rabbit
	Eye irritation	Moderately irritant	OECD 405	Rabbit
	LD50 (dermal)	> 5000 mg/kg bw	----	Rabbit
	LD50 (oral)	5000 mg/kg bw	----	Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Eye irritation	Non-irritant		Rabbit
	Skin irritation	Non-irritant		Rabbit
Geraniol	NOAEL (oral) - estimate	710 mg/kg bw/d	Read across	
	NOEL (oral)	> 550 mg/kg bw/d		Rat
	NOAEL (oral)	> 550 mg/kg bw/d		
	LD50 (dermal)	> 5000 mg/kg bw	----	Rabbit
	LD50 (oral)	> 2840 mg/kg bw	----	Rat
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	
	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
(Ethoxymethoxy)cyclododecane	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	NOAEL (fertility, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	3525 ug/cm2	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Non-irritant	OECD 405	Rabbit
	NOAEL (oral)	1000 mg/kg bw/d	OECD 422	Rat
Linalyl acetate	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 422	Rat
	NOAEL (fertility, oral)	1000 mg/kg bw/d	OECD 422	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	Outdoor cleaners (excludes stone, concrete and similar surfaces)	1000 mg/kg bw/d	OECD 414	Rat
	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) - estimate	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



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3-Ethoxy-4-hydroxybenzaldehyde	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 414	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	Rat
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	Skin irritation	Mildly irritant	-----	Human
	LD50 (oral)	> 3160 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Skin sensitisation	Not sensitizing	OECD 429	Mouse
	NOAEL (oral)	500 mg/kg bw/d		Rat
	Genotoxicity - in vitro	Not genotoxic		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (development) - estimate	Not teratogenic	Read across	
	Eye irritation	Irritant	OECD 405	Rabbit
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
[3R-(3α,3aβ,6β,7β,8α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	NOEL (carcinogenicity, oral)	Not carcinogenic	-----	Rat
	LD50 (dermal) - estimate	> 5000 mg/kg bw	Read across	
	LD50 (oral) - estimate	> 5000 mg/kg bw	Read across	
	LC50 (inhalation) - estimate	> 13000 mg/m3	Read across	
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Skin sensitisation	4100 ug/cm2	OECD 429	-----
	NOAEL (dermal)	> 300 mg/kg bw/d	-----	Rat
	NOAEL (development, oral)	> 500 mg/kg bw/d		Rat
	Skin irritation	Non-irritant		
3,7-Dimethyloctan-3-ol	LD50 (oral)	3600 mg/kg bw	-----	Rat
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	Skin irritation	Non-irritant		
	NOAEL (fertility, oral)	100 mg/kg bw/d	OECD 422	Rat
	LD50 (oral)	8270 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	NOAEL (oral)	316 mg/kg bw/d	OECD 408	Rat
	NOAEL (dermal) - estimate	250 mg/kg bw/d	Read across	Rat
	NOAEL (fertility) - estimate	365 mg/kg.d	Read across	Rat
	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 414	Rat
	Skin irritation	Irritant		Rabbit
	Eye irritation	Non-irritant		Rabbit
Citral	LC50 (inhalation) - estimate	> 5000 mg/m3		Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
	Eye irritation	Slightly irritant	OECD 405	Rabbit
Skin irritation	Moderately irritant		Rabbit	



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Coumarin	Skin irritation	Irritant	OECD 406	Human
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (developmental toxicity, inh.)	423 mg/m ³	-----	Rat
	NOEL (carcinogenicity, oral)	> 100 mg/kg bw/d	OECD 453	Rat
	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
	NOAEL (development, oral)	200 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	> 12500 ug/cm ²	OECD 429	Mouse
	NOAEL (development, oral)	> 115 mg/kg bw/d		Mouse
	Eye irritation	Non-irritant		Rabbit
	LD50 (oral)	680 mg/kg bw	-----	Rat
	NOAEL (oral)	> 138,3 mg/kg bw/d		Mouse
d-Limonene	Skin irritation	Non-irritant		Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	> 105 mg/kg bw/d	OECD 474	Mouse
	NOEL (carcinogenicity) - estimate	Not carcinogenic		
	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	> 300 mg/kg bw/d	OECD 451	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	5500 ug/cm ²	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
	1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Genotoxicity - in vitro	Not genotoxic	
NOAEL (oral)		150 mg/kg bw/d		Rat
Genotoxicity - estimate		Not genotoxic	Read across	-----
NOAEL (development) - estimate		Not teratogenic	Read across	-----
NOAEL (fertility) - estimate		Not reprotoxic	Read across	-----
NOEL (carcinogenicity) - estimate		Not carcinogenic	Read across	
NOAEL (dermal) - estimate		50 mg/kg bw/d	Read across	Rat
NOAEL (oral) - estimate		10 mg/kg bw/d	Read across	Rat
Mutagenicity		Negative	OECD 471	Salmonella typhimurium
LD50 (oral)		1821 mg/kg bw		Mouse

11.2. Information on other hazards



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

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 4 mg/l. Calculated EC50 (waterflea): 1 mg/l.
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.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

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 properties : Not applicable.

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	LC50 (fish)	1,34 mg/l		Brachydanio rerio
	EC50 (waterflea)	0,88 mg/l	OECD 202	Daphnia magna
	IC50 (alga)	0,49 mg/l	OECD 201	Pseudokirchnerella subcapitata
	NOEC (algae)	0,11 mg/l	OECD 201	Pseudokirchnerella subcapitata
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Ultimate aerobic biodegradation (%)	81,3 %	OECD 301 B	
	Log P(ow)	4,4		
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	BCF	116		
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC50 (waterflea)	1,38 mg/l	OECD 202	----
	IC50 (alga)	> 2,6 mg/l	OECD 201	----
	LC50 (fish)	1,3 mg/l	OECD 203	----
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Log P(ow)	5,23		



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1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	BCF	600		
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LC50 (fish)	10,9 mg/l	OECD 203	Oncorhynchus mykiss
	Ultimate aerobic biodegradation (%)	61,8 %	OECD 301 B	
	EC50 (waterflea) - estimate	3,04 mg/l	-----	Daphnia magna
	EC50 (waterflea)	4,7 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	> 20 mg/l	OECD 201	Desmodesmus subspicatus
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (Ethoxymethoxy)cyclododecane	Log P(ow)	4,288		
	LC50 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	1,6 mg/l	OECD 202	Daphnia magna
	NOEC (fish)	1,3 mg/l	OECD 203	Brachydanio rerio
	NOEC (waterflea) - acute	0,68 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	> 2 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	< 60	OECD 302 C	
(Ethoxymethoxy)cyclododecane	Log P(ow)	5,4		
(Ethoxymethoxy)cyclododecane	BCF	530		
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	EC50 (waterflea)	1 mg/l		Daphnia magna
	Ultimate aerobic biodegradation (%)	80 %		
	EC100 (waterflea)	3,2 mg/l		Daphnia magna
	LC50 (fish)	5,09 mg/l	-----	Pimephales promelas
	EC0 (waterflea)	0,18 mg/l		Daphnia magna
	IC50 (algae)	20,9 mg/l		Scenedesmus subspicatus
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Log P(ow)	4,0000		
[3R-(3 α ,3 $\alpha\beta$,6 β ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	LC50 (fish) - estimate	0,43 mg/l		
	EC50 (waterflea) - estimate	0,48 mg/l		
[3R-(3 α ,3 $\alpha\beta$,6 β ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Log P(ow)	6,100		
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	EC50 (waterflea)	8,3 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	> 4,6 mg/l	OECD 203	Oncorhynchus mykiss
	IC50 (algae)	28 mg/l	OECD 201	Pseudokirchnerella subcapitata
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Log P(ow)	2,4		
[3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	LC50 (fish) - estimate	0,055 mg/l	-----	-----
	EC50 (waterflea) - estimate	> 0,01 mg/l		



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[3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Log P(ow)	6,38		
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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 of into the environment, drains, sewers or 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. : UN 3082

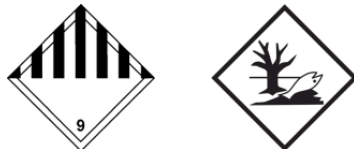
14.2. UN proper shipping name

- Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction mass of 2-methylbutyl salicylate and pentyl salicylate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)
- Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction mass of 2-methylbutyl salicylate and pentyl salicylate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)

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

ADR/RID/ADN (road/railway/inland waterways)

- Class : 9
- Classification code : M6
- Packaging group : III
- Danger label : 9 + the "environmentally hazardous substance" mark.
- Tunnel restriction code : (-)



- Other information : Not intended for carriage by tank-vessels on inland waterways. This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 (Special provisions 375).

IMDG (sea)

- Class : 9
- Packaging group : III
- EmS (fire / spill) : F - A / S - F



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Marine pollutant : Yes
Other information : This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 (IMDG code 37-14, 2.10.2.7).

IATA (air)
Class : 9
ERG code : 9L
Packaging group : III

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

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

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

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

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



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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:

Skin Irrit. 2	: Calculation method.
Eye Irrit. 2	: Calculation method.
Skin Sens. 1/1A/1B	: Calculation method.
Aquatic Chronic 2	: Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	: Flammable liquid, category 3.
Acute Tox. 4	: Acute toxicity, category 4.
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.
Repr. 2	: Reproductive toxicity, category 2.
Asp. Tox. 1	: Aspiration hazard, category 1.
Aquatic Chronic 1	: Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 2	: Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	: Hazardous to the aquatic environment — Chronic category 3.
Aquatic Acute 1	: Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
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.

Advice on any training appropriate for workers: none.

Number format : ", " used as decimal separator.



Kemetyl

Safety data sheet

According to Regulation (EU) No 2020/878

End of safety data sheet.

Print date : 2022-09-09