



**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 BLACK VELVET  
Product code : CRX720, AL61B; 9728125

### 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 Kimya Sanayi ve Ticaret Limited Sirketi  
Küçükbakkalköy Mah. Dereboyu Cad. Brandium AVYM R5  
Blok D:82 Ataşehir / İstanbul, Turkey  
Telephone : +908503030587  
E-mail : msds@kemetyl.com  
Website : www.kemetyl.com

### 1.4. Emergency telephone number

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

TR - Telephone : +908503030587

(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.

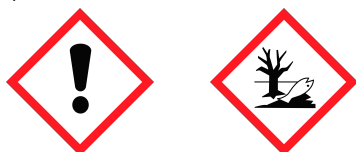
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.

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 gloves	Wear protective gloves.
P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container to an official chemical waste depot.



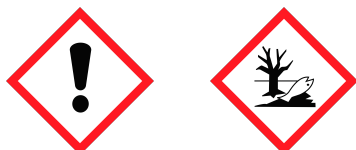
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Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

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: Linalyl acetate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; (1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate ; d-Limonene ; Pentadecan-15-olide ; Linalool ; Citral ; 1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one ; 3-p-Cumenyl-2-methylpropionaldehyde ; Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde ; Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol ; Citronellol .

## 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	5 - < 10	18479-58-8	242-362-4		01-2119457274-37
2,2,4,6,6-Pentamethylheptane	5 - < 10	13475-82-6	236-757-0		01-2119490725-29
Linalyl acetate	5 - < 10	115-95-7	204-116-4		01-2119454789-19
Ionone, methyl-	2,5 - < 5	1335-46-2	215-635-0		
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	1 - < 5	63500-71-0	405-040-6		01-2119455547-30
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
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate	2,5 - < 5	35836-72-7	800-940-9		01-2119982322-38
d-Limonene	1 - < 5	5989-27-5	227-813-5		01-2119529223-47
Allyl (3-methylbutoxy)acetate	1 - < 2,5	67634-00-8	266-803-5		
Reaction mass of 1-methyl-4-(1-methylethylidene)cyclohexyl acetate and p-menth-1-en-8-yl acetate	1 - < 2,5	-----	904-693-9		01-2119977127-29
Pentadecan-15-olide	1 - < 2,5	106-02-5	203-354-6		01-2119987323-31
Patchouli, ext.	1 - < 2,5	84238-39-1	282-493-4		01-2119967775-18
Linalool	0,1 - < 1	78-70-6	201-134-4		01-2119474016-42
Citral	0,1 - < 1	5392-40-5	226-394-6		01-2119462829-23

Product name : Shell Air Freshener Black Velvet

Date of issue : 2022-06-27

Replaces issue dated

: 2022-02-15

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1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	0,1 - < 1	33704-61-9	251-649-3		01-2119977131-40
3-p-Cumenyl-2-methylpropionaldehyde	0,1 - < 1	103-95-7	203-161-7		01-2119970582-32
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	0,1 - < 1	-----	943-728-2		01-2119982384-28
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol	0,1 - < 1	5502-75-0	939-719-8		01-2119983532-32
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-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		
Citronellol	0,1 - < 1	106-22-9	203-375-0		01-2119453995-23

Substance name	Hazard Class	H-phrases	Pictograms	
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
2,2,4,6,6-Pentamethylheptane	Flam. Liq. 3; Asp. Tox. 1; Aquatic Chronic 4	H226; H304; H413	GHS02; GHS08	
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Ionone, methyl-	Skin Irrit. 2; Eye Irrit. 2; Aquatic Chronic 2	H315; H319; H411	GHS07; GHS09	
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Eye Irrit. 2	H319	GHS07	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1	H315; H317; H410	GHS07; GHS09	M (chronic) = 1
d-Limonene	Skin Sens. 1B; Eye Irrit. 2; Aquatic Chronic 2	H317; H319; H411	GHS07; GHS09	
	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
Allyl (3-methylbutoxy)acetate	Acute Tox. 4; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H302; H330; H400; H410	GHS06; GHS09	M (acute) = 1 M (chronic) = 1
Reaction mass of 1-methyl-4-(1-methylethylidene)cyclohexyl acetate and p-menth-1-en-8-yl acetate	Aquatic Chronic 2	H411	GHS09	
Pentadecan-15-olide	Skin Sens. 1B; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
Patchouli, ext.	Asp. Tox. 1; Aquatic Chronic 2	H304; H411	GHS08; GHS09	
Linalool	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Citral	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2; Aquatic Chronic 2	H315; H317; H319; H411	GHS07; GHS09	
3-p-Cumenyl-2-methylpropionaldehyde	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3	H315; H317; H412	GHS07	
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	



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Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol	Skin Irrit. 2; Skin Sens. 1B	H315; H317	GHS07	
[3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,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	Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1	H304; H400; H410	GHS08; GHS09	M (acute) = 10 M (chronic) = 10
Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	

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 (CO<sub>2</sub>). 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.



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## 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. 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. 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/m<sup>3</sup>):

Chemical name	Country	TWA 8 hour (mg/m <sup>3</sup> )	STEL 15 min (mg/m <sup>3</sup> )	Comments	Source
d-Limonene		28	80		MAC: DE, CH

Derived no-effect level (DNEL) for workers:



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Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
2,6-Dimethyloct-7-en-2-ol	Dermal				7 mg/kg bw/day
Linalyl acetate	Inhalation				24.7 mg/m3
	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	2,5 mg/kg bw/day
Ionone, methyl-	Inhalation				2,75 mg/m3
	Inhalation		---- mg/m3		26.1 mg/m3
	Dermal				14.8 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Inhalation				30 mg/m3
	Dermal			0.648 mg/kg bw/day	28.7 mg/kg bw/day
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate	Inhalation				2,1 mg/m3
	Dermal			0.078 mg/kg bw/day	0,6 mg/kg bw/day
d-Limonene	Inhalation				66,7 mg/m3
	Dermal				9,5 mg/kg bw/day
Allyl (3-methylbutoxy)acetate	Dermal				1,4 mg/kg bw/day
	Inhalation				4,93 mg/m3
Patchouli, ext.	Inhalation				11,48 mg/m3
	Dermal			8,14 mg/kg bw/day	3,26 mg/kg bw/day
Linalool	Inhalation				24.58 mg/m3
	Dermal	3 mg/kg bw		3 mg/kg bw/day	3.5 mg/kg bw/day
Citral	Inhalation				9 mg/m3
	Dermal				1,7 mg/kg bw/day
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Inhalation				1,47 mg/m3
	Dermal			5,510 mg/kg bw/day	0,42 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation				5,83 mg/m3
	Dermal			0,00743 mg/kg bw/day	1,67 mg/kg bw/day
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Inhalation				1,837 mg/m3
	Dermal				0,521 mg/kg bw/day
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol	Inhalation				6,63 mg/m3
	Dermal				1,88 mg/kg bw/day
Citronellol	Inhalation	10 mg/m3		10 mg/m3	161,6 mg/m3
	Dermal	2,950 mg/kg bw			327,4 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
2,6-Dimethyloct-7-en-2-ol	Dermal				2.5 mg/kg bw/day
	Inhalation				4.35 mg/m3
	Oral				2.5 mg/kg bw/day



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Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation				0,68 mg/m3
Ionone, methyl-	Oral				0,2 mg/kg bw/day
	Inhalation				6.4 mg/m3
	Dermal				7.4 mg/kg bw/day
	Oral				3.7 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Inhalation				9 mg/m3
	Dermal			0.380 mg/kg bw/day	17.2 mg/kg bw/day
	Oral				3 mg/kg bw/day
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate	Inhalation				0,5 mg/m3
	Dermal				0,3 mg/kg bw/day
d-Limonene	Oral				0.3 mg/kg bw/day
	Inhalation				16,6 mg/m3
	Dermal				4,8 mg/kg bw/day
	Oral				4,8 mg/kg bw/day
Allyl (3-methylbutoxy)acetate	Oral				0,5 mg/kg bw/day
	Dermal				0,87 mg/kg bw/day
Linalool	Dermal	1.5 mg/kg bw		1.5 mg/kg bw/day	1.25 mg/kg bw/day
	Inhalation				4.33 mg/m3
	Oral				2.49 mg/kg bw/day
	Dermal				1 mg/kg bw/day
	Inhalation				2,7 mg/m3
	Oral				0,6 mg/kg bw/day
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Inhalation				0,44 mg/m3
	Dermal			3,241 mg/kg bw/day	0,25 mg/kg bw/day
	Oral				0,25 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation				1,45 mg/m3
	Dermal			0,00372 mg/kg bw/day	0,83 mg/kg bw/day
	Oral				0,83 mg/kg bw/day
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Inhalation				0,543 mg/m3
	Oral				0,312 mg/kg bw/day
	Dermal				0,312 mg/kg bw/day
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol	Inhalation				1,63 mg/m3
	Dermal				0,94 mg/kg bw/day
	Oral				0,94 mg/kg bw/day
Citronellol	Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3
	Dermal	2,950 mg/kg bw			196,4 mg/kg bw/day
	Oral				13,8 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	



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Linalyl acetate	Intermittent water			0,278 mg/l
	STP			10 mg/l
	Soil			0,103 mg/kg
lonone, methyl-	Oral			111 mg/kg food
	Water	0,011 mg/l	0,001 mg/l	
	Sediment	0,609 mg/kg	0,061 mg/kg	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Intermittent water			0,11 mg/l
	STP			1 mg/l
	Soil			0,115 mg/kg
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyl acetate	Water	0.002 mg/l	0 mg/l	
	Sediment	0.168 mg/kg	0.017 mg/kg	
	Intermittent water			0,023 mg/l
d-Limonene	STP			10 mg/l
	Soil			0.033 mg/kg
	Water	0.0044 mg/l	0.00044 mg/l	
Allyl (3-methylbutoxy)acetate	Sediment	3.73 mg/kg	0.75 mg/kg	
	STP			10 mg/l
	Soil			2.7 mg/kg
Reaction mass of 1-methyl-4-(1-methylethylidene)cyclohexyl acetate and p-menth-1-en-8-yl acetate	Oral			26.7 mg/kg food
	Water	0.00711 mg/l	0.000711 mg/l	
	Sediment	0.999 mg/kg	0.0999 mg/kg	
Pentadecan-15-olide	STP			4 mg/l
	Soil			0.196 mg/kg
	Water	0.014 mg/l	0.0014 mg/l	
Patchouli, ext.	Sediment	3.85 mg/kg	0.385 mg/kg	
	STP			1.8 mg/l
	Soil			0.763 mg/kg
Linalool	Oral			133 mg/kg food
	Water	0.00077 mg/l	0.00008 mg/l	
	Sediment	0.0089 mg/kg	0.0009 mg/kg	
Linalool	STP			0.0089 mg/l
	Soil			0.0013 mg/kg
	Water	0.0069 mg/l	0.00069 mg/l	
Linalool	Sediment	0.453 mg/kg	0.045 mg/kg	
	STP			10 mg/l
	Soil			0,086 mg/kg
Linalool	Water	0,0027 mg/l	0,00027 mg/l	
	Sediment	21 mg/kg	4,2 mg/kg	
	STP			10 mg/l
Linalool	Soil			10 mg/kg
	Water	0,006 mg/l	0,006 mg/l	
	Sediment	4,6 mg/kg	4,6 mg/kg	
Linalool	STP			10 mg/l
	Soil			0,479 mg/kg
	Oral			65,1 mg/kg food
Linalool	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
	STP			10 mg/l





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Citral	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
	Water	0,00678 mg/l	0,000678 mg/l	
	Sediment	0,125 mg/kg	0,0125 mg/kg	
	Intermittent water			0,0678 mg/l
	STP			1,6 mg/l
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Soil			0,0209 mg/kg
	Water	0,004 mg/l	0 mg/l	
	Sediment	0,0991 mg/kg	0,00991 mg/kg	
	STP			10 mg/l
3-p-Cumenyl-2-methylpropionaldehyde	Soil			0,0174 mg/kg
	Oral			1,11 mg/kg food
	Water	0,00109 mg/l	0,00011 mg/l	
	Sediment	0,126 mg/kg	0,013 mg/kg	
	Intermittent water			0,01092 mg/l
	STP			1 mg/l
	Soil			0,025 mg/kg
	Oral			33.3 mg/kg food
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Water	0.0075 mg/l	0.00075 mg/l	
	Sediment	0.226 mg/kg	0.023 mg/kg	
	STP			10 mg/l
	Soil			0.041 mg/kg
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol	Water	0.0044 mg/l	0.00044 mg/l	
	Sediment	0.266 mg/kg	0.0266 mg/kg	
	STP			1.9 mg/l
	Soil			0.051 mg/kg
Citronellol	Oral			41.78 mg/kg food
	Water	0.002 mg/l	0 mg/l	
	Sediment	0.026 mg/kg	0.003 mg/kg	
	Intermittent water			0,024 mg/l
	STP			580 mg/l
	Soil			0.004 mg/kg

## 8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.

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.



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- 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 \*

### 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	: > 100 °C	Closed cup.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 225 °C	
Boiling point/boiling range	: > 60 °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 (%): 6,5 ( d-Limonene )
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



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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.

## 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: 26 %. ATE: > 5 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: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness.
- 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 : 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 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
2,6-Dimethyloct-7-en-2-ol	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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Linalyl 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	
	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	
	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 414	Rat	
	Ionone, methyl-	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	Rat
		Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
Skin sensitisation		5450 ug/cm2	OECD 429	-----	
LD50 (oral)		> 2000 mg/kg bw	OECD 423	Rat	
LD50 (dermal)		> 5000 mg/kg bw		Rabbit	
NOAEL (oral) - estimate		30 mg/kg bw/d	Read across	Rat	
Genotoxicity - in vitro		Not genotoxic	OECD 476	Chinese Hamster	
Mutagenicity		Negative	OECD 471	Salmonella typhimurium	
Genotoxicity - in vivo		Not genotoxic	-----	Mouse	
Skin irritation		Irritant	-----	Rat	
Eye irritation - estimate		Irritant	Read across	Rabbit	
NOAEL (fertility) - estimate		120 mg/kg.d	Read across		
NOAEL (development) - estimate		120 mg/kg.d	Read across		
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		LD50 (oral)	> 5000 mg/kg bw	-----	Rat
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit	
	Eye irritation	Irritant	-----	Rabbit	
	Skin irritation	Non-irritant	-----	Rabbit	
	Skin irritation	Non-irritant	Patch test	Human	
	Skin irritation	Non-irritant	-----	Rabbit	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	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	



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(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate	LC50 (inhalation) - estimate	> 22360 mg/m3	Read across	
	LD50 (oral)	> 2000 mg/kg bw	OECD 401	Mouse
d-Limonene	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rabbit
	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/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		
	NOAEL (oral)	150 mg/kg bw/d		Rat
Pentadecan-15-olide	Genotoxicity - in vivo	> 1600 mg/kg bw/d		Mouse
	LD50 (oral)	> 5000 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Skin irritation	Non-irritant	Patch test	Human
	NOAEL (fertility) - estimate	> 1000 mg/kg.d	Read across	Rat
	NOAEL (development) - estimate	> 1000 mg/kg.d	Read across	Rat
	NOAEL (oral) - estimate	> 1000 mg/kg bw/d	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - estimate	Not genotoxic		
	Skin sensitisation	5450 ug/cm2	OECD 429	Mouse
Linalool	NOAEL (development, oral)	365 mg/kg bw/d	-----	Rat
	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
Citral	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
	Skin irritation	Irritant		Human
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (developmental toxicity, inh.)	423 mg/m3	-----	Rat



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1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	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
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	LD50 (oral)	> 2325 mg/kg bw	OECD 401	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
3-p-Cumenyl-2-methylpropionaldehyde	Skin irritation	Irritant		Human
	Eye irritation	Irritant	-----	-----
	NOAEL (oral)	10 mg/kg bw/d	OECD 408	Rat
	NOAEL (development, oral)	115 mg/kg bw/d	OECD 421	Rat
	NOAEL (fertility, oral)	115 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	5575 ug/cm2	OECD 429	Mouse
	NOAEL (oral)	300 mg/kg bw/d		Rabbit
	Skin irritation	Slightly irritant		Rabbit
	LD50 (oral)	3810 mg/kg bw	-----	Rat
	NOAEL (fertility, oral)	25 mg/kg bw/d	OECD 415	Rat
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	> 2000 mg/kg bw/d	Read across	Mouse
	Eye irritation	Non-irritant		Rabbit
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rat
	LD50 (oral)	3900 mg/kg bw		Rat
	Eye irritation	Slightly irritant		Rabbit
	Skin irritation	Irritant		Rabbit
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Skin sensitisation - estimate	Sensitizing.	Read across	Guinea pig
	NOAEL (development) - estimate	25 mg/kg.d	Read across	Rat
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol	NOAEL (fertility) - estimate	Not reprotoxic	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - estimate	Not genotoxic	Read across	
	NOAEL (oral) - estimate	150 mg/kg bw/d	Read across	Rat
	LD50 (oral)	> 10000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	
	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
Citronellol	Skin irritation	Moderately irritant		Rabbit



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	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

## 11.2. Information on other hazards

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): 3 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
Ionone, methyl-	IC50 (algae)	> 9,42 mg/l	OECD 201	Scenedesmus subspicatus
	LC50 (fish)	> 1,57 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	3,7 mg/l	OECD 202	Daphnia magna
	EC0 (waterflea)	2,42 mg/l	OECD 202	Daphnia magna
	EC100 (waterflea)	9,41 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	76 %	OECD 301 F	
	Log P(ow)	4,39		
BCF	586			



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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	-----
	Log P(ow)	5,23		
	BCF	600		
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyl acetate	LC50 (fish)	11,44 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	11,946 mg/l	OECD 202	Daphnia magna
Allyl (3-methylbutoxy)acetate	IC50 (alga)	7,11 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	78 %	OECD 301 F	
	Log P(ow)	4,24		
	BCF	434,8		
	IC50 (alga) - estimate	2,06 mg/l	-----	-----
Reaction mass of 1-methyl-4-(1-methylethylidene)cyclohexyl acetate and p-menth-1-en-8-yl acetate	LC50 (fish) - estimate	0,77 mg/l	-----	-----
	EC50 (waterflea) - estimate	5,09 mg/l	-----	-----
	Ultimate aerobic biodegradation (%)	> 60 %	OECD 301 B	
	Log P(ow)	2,72		
	LC50 (fish) - estimate	> 11 mg/l		
Pentadecan-15-olide	EC50 (waterflea) - estimate	> 10 mg/l		
	Ultimate aerobic biodegradation (%)	63 %	Read across	
	IC50 (alga) - estimate	6,9 mg/l	Read across	
	Log P(ow)	4,4		
	BCF	1100		
Patchouli, ext.	EC50 (waterflea)	> 0,17 mg/l	OECD 202	Daphnia magna
	LC0 (fish)	> 0,11 mg/l	-----	-----
	IC50 (alga)	0,4 mg/l	OECD 201	Scenedesmus subspicatus
	Ultimate aerobic biodegradation (%)	82 %	OECD 301 B	
	LC50 (fish) - estimate	2 mg/l	OECD 203	Oncorhynchus mykiss
[3R-(3α,3αβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	NOEC (waterflea) - chronic	0,068 mg/l.d	OECD 211	Daphnia magna
	Log P(ow)	5,79		
	BCF	599		
	LC50 (fish)	> 1 mg/l	OECD 203	Oncorhynchus mykiss
	EC50 (waterflea)	21 mg/l	OECD 202	Daphnia magna
[3R-(3α,3αβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	IC50 (alga)	> 100 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	66 %	OECD 301 F	
	Log P(ow)	> 4		
	LC50 (fish) - estimate	0,055 mg/l	-----	-----





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	EC50 (waterflea) - estimate	> 0,01 mg/l		
	Log P(ow)	6,38		

## 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

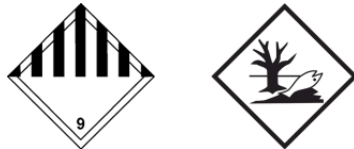
### 14.2. UN proper shipping name

- Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one )
- Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)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  $\leq 5$  L or  $\leq 5$  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  $\leq 5$  L or  $\leq 5$  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



**Kemetyl**

# Safety data sheet

According to Regulation (EU) No 2020/878

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. 2	: Acute toxicity, Hazard Category 2.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Irrit. 2	: Skin irritation, category 2.
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.
Aquatic Chronic 2	: Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	: Hazardous to the aquatic environment — Chronic category 3.
Aquatic Chronic 4	: Hazardous to the aquatic environment — Chronic category 4.
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.
H330	Fatal if inhaled.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Advice on any training appropriate for workers: none.

Number format : ", " used as decimal separator.



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# Safety data sheet

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End of safety data sheet.

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